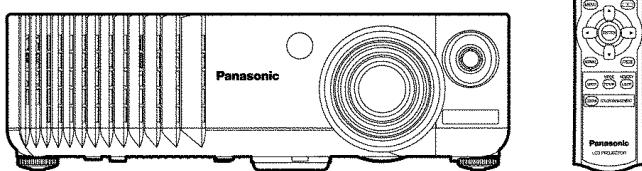


# Service Manual

LCD Projector

PT-AE700U  
PT-AE700E



**Panasonic**

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The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service Manual.

## Specifications

### Power supply:

100 V - 240 V AC, 50 Hz / 60 Hz

### Power consumption:

180W [During standby (when fan is stopped):

Approx. 3.0 W]

### Amps:

2.2 A - 1.1 A

### LCD panel:

Panel size (diagonal): 0.7 type (17.78 mm)

Aspect ratio: 16:9

Display method: 3 transparent LCD panels (RGB)

Drive method: Active matrix method

Pixels: 921 600 (1 280 × 720) × 3 panels

### Lens:

Manual zoom (1 - 2.0) / Manual focus

F 1.9 - 3.1, f 21.7 mm - 43.1 mm

### Lamp:

UHM lamp (130 W)

### Luminosity:

1 000 lm

### Scanning frequency (for RGB signals):

Horizontal scanning frequency: 30 kHz - 70 kHz

Vertical scanning frequency: 50 Hz - 87 Hz

Dot clock frequency: 100 MHz or less

### YPbPr signals:

525i (480i), 525p (480p), 625i (576i), 625p (576p),  
1 125 (1 080)/60i, 1 125 (1 080)/50i, 750p (720p)/60p,  
750p (720p)/50p

### Color system:

7 (NTSC / NTSC 4.43 / PAL / PAL-M / PAL-N / PAL60/  
SECAM)

### Projection size:

1 016 mm - 5 080 mm

### Throw distance:

1.2 m - 12.4 m

### Screen aspect ratio:

16:9

### Installation:

Front / Rear / Ceiling / Desk (Menu selection method)

### Connectors:

#### VIDEO IN:

S-VIDEO: Single-line, Mini Din 4-pin

Y 1.0 V [p-p], C 0.286 V [p-p], 75 Ω

VIDEO: Single-line, RCA pin jack

1.0 V [p-p], 75 Ω

#### PC IN:

RGB: Single-line, D-SUB HD 15-pin (female)

R.G.B: 0.7V [p-p], 75Ω

G.SYNC: 1.0 V [p-p], 75Ω

HD/SYNC: TTL high impedance, automatic  
positive/negative polarity compatible

VD: TTL high impedance, automatic  
positive/negative polarity compatible

### COMPONENT IN :

Y, Pb/Cb, Pr/Cr: Signal-line, RCA pin jack × 3

Y: 1.0 V [p-p] (Including sync), 75Ω

Pb, Pr (Cb, Cr): 0.7 V [p-p], 75Ω

### HDMI IN :

Single-line, 19-pin HDMI connector

### SCART in:

Single-line, 21-pin SCART connector  
(PT-AE700E only)

VIDEO: 1.0 V [p-p], 75Ω

RGB: R.G.B.:0.7 V [p-p], 75Ω

SYNC.:0.3 V [p-p], 75Ω

### TRIGGER out :

Single-line, M3 jack

When the power is turned on (during projection): 12 V

When the power is turned off: 0 V

### Cabinet:

Molded plastic (ABS / PC)

### Dimensions:

Width: 335 mm

Height: 104 mm

Length: 270 mm (Not including lens)

### Weight:

3.6 kg

### Operating environment:

Temperature: 0°C - 40°C

(When the "FAN CONTROL" is set to

"HIGH": 0°C - 35°C )

Humidity: 20 % - 80 % (no condensation)

### Certifications:

PT-AE700U: UL60950, C-UL, FCC Class B

PT-AE700E: EN60950, EN55022, EN61000-3-2,  
EN61000-3-3, EN55024

### <Remote control unit>

#### Power supply:

3 V DC (AAA battery × 2)

#### Operating range:

Approx. 7 m

(when operated directly in front of signal receptor)

#### Weight:

70 g (including batteries)

### Dimensions:

Width: 43 mm

Height: 22.3 mm

Length: 135 mm

### Accessories:

#### Remote control unit (N2QAEA000025):

1

#### AAA batteries for remote control unit (× 2):

1

#### Power cord: PT-AE700U: K2CG3FR00001

1

PT-AE700E: K2CT3FR00003 (U.K)

1

: K2CM3FR00002

1

(continental)

#### Video cable [K2KA2FA00003 (3.0 m)]:

1

### Options:

#### Ceiling bracket: ET-PKE700

#### Projection Screen: ET-SRW90CT (width:2 000 mm)

• Specifications are subject to change without notice.

• Weight and dimensions shown are approximate.

## **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

## Trademark Acknowledgements

- VGA and XGA are trademarks of International Business Machines Corporation.
- S-VGA is a registered trademark of the Video Electronics Standards Association.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. All other trademarks are the property of the various trademark owners.

### Precaution

If using this projector at high elevations (above 1 400 m), set the FAN CONTROL to HIGH. (Refer to "Option settings" in Operating Instructions.)

Failure to observe this may cause malfunctions.

Never use this projector at an elevation of 2 700 m or higher.

Using this projector at high elevations, consult your dealer or Authorized Service Center about preparations.

## About lead free solder (PbF)

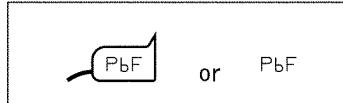
This projector is using the P.C.Board which applies lead free solder. The use of lead free solder is recommended from the standpoint of antipollution for the global environment in service.

Notes:

- Lead free solder: Sn-Ag-Cu (tin, silver and copper) has a higher melting point (approx. 217°C) than standard solder. Typically, the melting point is 30°C to 40°C higher. When servicing, use a high temperature soldering iron with temperature limitation function and set it to  $370 \pm 10^\circ\text{C}$ .
- Be cautious about lead free solder: Sn-Ag-Cu (tin, silver and copper) will tend to splash when heated too high (approx. 600°C or higher).
- Use lead free solder for the P.C.Board (specified on it as "PbF") which uses lead free solder. (When you unavoidably use lead solder, use lead solder after removing lead free solder. Or be sure to heat the lead free solder until it melts completely, before applying lead solder.)
- After soldering to double layered P.C.Boards, check the component side for excess solder which may flow onto the opposite side.

About the identification of the lead free solder P.C.Board

For the P.C.Board which applies lead free solder, the symbol as shown in the figure below is printed or stamped on the surface or the back of P.C.Board.



For US

## **IMPORTANT SAFETY NOTICE**

There are special parts used in Panasonic LCD Projectors which are important for safety. These parts are shaded on the schematic diagram. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of PANASONIC BROADCAST & TELEVISION SYSTEMS COMPANY.

### **WARNING:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** Any unauthorized changes or modifications to this equipment will void the users authority to operate.

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| 6.11. Removal of LCD Block .....                               | 14        | 11.1. A-P.C.Board (1/6) .....                                  | 44        | 6.12. Removal of Projection Lens .....                    | 14 | 11.2. A-P.C.Board (2/6) .....                                  | 45        | 6.13. Replacement of LCD Panel .....                      | 14        | 11.3. A-P.C.Board (3/6) .....                                  | 46        | 6.14. LCD Panel Discrimination .....                      | 15        | 11.4. A-P.C.Board (4/6) .....                                  | 47        | 6.15. LCD Panel Combination .....                         | 15        | 11.5. A-P.C.Board (5/6) .....                                  | 48        | 6.16. Replacement of Projection Polarizer .....          | 16        | 11.6. A-P.C.Board (6/6) .....                                  | 49        | 6.17. Replacement of Incidence Polarizer (R and B) ..... | 16        | 11.7. K-P.C.Board, S-P.C.Board, H-P.C.Board, J-P.C.Board ..... | 50        | 6.18. Replacement of Incidence Polarizer (G) .....    | 17        | 11.8. B-Module (1/2) .....                                | 51        | 6.19. Replacement of PBS Array (Analysis Block) .....    | 17        | 11.9. B-Module (2/2) .....                                     | 52        | 6.20. Removal of Iris Unit .....                         | 18        | <b>7 Measurement and Adjustments .....</b>                     | <b>19</b> | <b>12 Circuit Boards .....</b>                           | <b>53</b> | 7.1. Adjustment Procedure Flowchart .....                      | 19        | 12.1. A-P.CBoard .....                                   | 53        | 12.2. J-P.C.Board/S-P.C.Board .....                            | 54        | <b>13 Terminal guide of ICs and transistors .....</b> | <b>55</b> | <b>14 Exploded Views .....</b>                  | <b>56</b> | <b>15 Replacement Parts List .....</b>                | <b>60</b> |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 11.1. A-P.C.Board (1/6) .....                                  | 44        |  |           |   |    |  |           |   |           |  |           |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 6.12. Removal of Projection Lens .....                         | 14        | 11.2. A-P.C.Board (2/6) .....                                  | 45        | 6.13. Replacement of LCD Panel .....                      | 14 | 11.3. A-P.C.Board (3/6) .....                                  | 46        | 6.14. LCD Panel Discrimination .....                      | 15        | 11.4. A-P.C.Board (4/6) .....                                  | 47        | 6.15. LCD Panel Combination .....                         | 15        | 11.5. A-P.C.Board (5/6) .....                                  | 48        | 6.16. Replacement of Projection Polarizer .....           | 16        | 11.6. A-P.C.Board (6/6) .....                                  | 49        | 6.17. Replacement of Incidence Polarizer (R and B) ..... | 16        | 11.7. K-P.C.Board, S-P.C.Board, H-P.C.Board, J-P.C.Board ..... | 50        | 6.18. Replacement of Incidence Polarizer (G) .....       | 17        | 11.8. B-Module (1/2) .....                                     | 51        | 6.19. Replacement of PBS Array (Analysis Block) ..... | 17        | 11.9. B-Module (2/2) .....                                | 52        | 6.20. Removal of Iris Unit .....                         | 18        | <b>7 Measurement and Adjustments .....</b>                     | <b>19</b> | <b>12 Circuit Boards .....</b>                           | <b>53</b> | 7.1. Adjustment Procedure Flowchart .....                      | 19        | 12.1. A-P.CBoard .....                                   | 53        | 12.2. J-P.C.Board/S-P.C.Board .....                            | 54        | <b>13 Terminal guide of ICs and transistors .....</b>    | <b>55</b> | <b>14 Exploded Views .....</b>                                 | <b>56</b> | <b>15 Replacement Parts List .....</b>                | <b>60</b> |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 11.2. A-P.C.Board (2/6) .....                                  | 45        |  |           |   |    |  |           |   |           |  |           |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 6.13. Replacement of LCD Panel .....                           | 14        | 11.3. A-P.C.Board (3/6) .....                                  | 46        | 6.14. LCD Panel Discrimination .....                      | 15 | 11.4. A-P.C.Board (4/6) .....                                  | 47        | 6.15. LCD Panel Combination .....                         | 15        | 11.5. A-P.C.Board (5/6) .....                                  | 48        | 6.16. Replacement of Projection Polarizer .....           | 16        | 11.6. A-P.C.Board (6/6) .....                                  | 49        | 6.17. Replacement of Incidence Polarizer (R and B) .....  | 16        | 11.7. K-P.C.Board, S-P.C.Board, H-P.C.Board, J-P.C.Board ..... | 50        | 6.18. Replacement of Incidence Polarizer (G) .....       | 17        | 11.8. B-Module (1/2) .....                                     | 51        | 6.19. Replacement of PBS Array (Analysis Block) .....    | 17        | 11.9. B-Module (2/2) .....                                     | 52        | 6.20. Removal of Iris Unit .....                      | 18        | <b>7 Measurement and Adjustments .....</b>                | <b>19</b> | <b>12 Circuit Boards .....</b>                           | <b>53</b> | 7.1. Adjustment Procedure Flowchart .....                      | 19        | 12.1. A-P.CBoard .....                                   | 53        | 12.2. J-P.C.Board/S-P.C.Board .....                            | 54        | <b>13 Terminal guide of ICs and transistors .....</b>    | <b>55</b> | <b>14 Exploded Views .....</b>                                 | <b>56</b> | <b>15 Replacement Parts List .....</b>                   | <b>60</b> |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 11.3. A-P.C.Board (3/6) .....                                  | 46        |  |           |   |    |  |           |   |           |  |           |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 6.14. LCD Panel Discrimination .....                           | 15        | 11.4. A-P.C.Board (4/6) .....                                  | 47        | 6.15. LCD Panel Combination .....                         | 15 | 11.5. A-P.C.Board (5/6) .....                                  | 48        | 6.16. Replacement of Projection Polarizer .....           | 16        | 11.6. A-P.C.Board (6/6) .....                                  | 49        | 6.17. Replacement of Incidence Polarizer (R and B) .....  | 16        | 11.7. K-P.C.Board, S-P.C.Board, H-P.C.Board, J-P.C.Board ..... | 50        | 6.18. Replacement of Incidence Polarizer (G) .....        | 17        | 11.8. B-Module (1/2) .....                                     | 51        | 6.19. Replacement of PBS Array (Analysis Block) .....    | 17        | 11.9. B-Module (2/2) .....                                     | 52        | 6.20. Removal of Iris Unit .....                         | 18        | <b>7 Measurement and Adjustments .....</b>                     | <b>19</b> | <b>12 Circuit Boards .....</b>                        | <b>53</b> | 7.1. Adjustment Procedure Flowchart .....                 | 19        | 12.1. A-P.CBoard .....                                   | 53        | 12.2. J-P.C.Board/S-P.C.Board .....                            | 54        | <b>13 Terminal guide of ICs and transistors .....</b>    | <b>55</b> | <b>14 Exploded Views .....</b>                                 | <b>56</b> | <b>15 Replacement Parts List .....</b>                   | <b>60</b> |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 11.4. A-P.C.Board (4/6) .....                                  | 47        |  |           |   |    |  |           |   |           |  |           |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
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| 11.5. A-P.C.Board (5/6) .....                                  | 48        |  |           |   |    |  |           |   |           |  |           |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 6.16. Replacement of Projection Polarizer .....                | 16        | 11.6. A-P.C.Board (6/6) .....                                  | 49        | 6.17. Replacement of Incidence Polarizer (R and B) .....  | 16 | 11.7. K-P.C.Board, S-P.C.Board, H-P.C.Board, J-P.C.Board ..... | 50        | 6.18. Replacement of Incidence Polarizer (G) .....        | 17        | 11.8. B-Module (1/2) .....                                     | 51        | 6.19. Replacement of PBS Array (Analysis Block) .....     | 17        | 11.9. B-Module (2/2) .....                                     | 52        | 6.20. Removal of Iris Unit .....                          | 18        | <b>7 Measurement and Adjustments .....</b>                     | <b>19</b> | <b>12 Circuit Boards .....</b>                           | <b>53</b> | 7.1. Adjustment Procedure Flowchart .....                      | 19        | 12.1. A-P.CBoard .....                                   | 53        | 12.2. J-P.C.Board/S-P.C.Board .....                            | 54        | <b>13 Terminal guide of ICs and transistors .....</b> | <b>55</b> | <b>14 Exploded Views .....</b>                            | <b>56</b> | <b>15 Replacement Parts List .....</b>                   | <b>60</b> |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 11.6. A-P.C.Board (6/6) .....                                  | 49        |  |           |   |    |  |           |   |           |  |           |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 6.17. Replacement of Incidence Polarizer (R and B) .....       | 16        | 11.7. K-P.C.Board, S-P.C.Board, H-P.C.Board, J-P.C.Board ..... | 50        | 6.18. Replacement of Incidence Polarizer (G) .....        | 17 | 11.8. B-Module (1/2) .....                                     | 51        | 6.19. Replacement of PBS Array (Analysis Block) .....     | 17        | 11.9. B-Module (2/2) .....                                     | 52        | 6.20. Removal of Iris Unit .....                          | 18        | <b>7 Measurement and Adjustments .....</b>                     | <b>19</b> | <b>12 Circuit Boards .....</b>                            | <b>53</b> | 7.1. Adjustment Procedure Flowchart .....                      | 19        | 12.1. A-P.CBoard .....                                   | 53        | 12.2. J-P.C.Board/S-P.C.Board .....                            | 54        | <b>13 Terminal guide of ICs and transistors .....</b>    | <b>55</b> | <b>14 Exploded Views .....</b>                                 | <b>56</b> | <b>15 Replacement Parts List .....</b>                | <b>60</b> |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 11.7. K-P.C.Board, S-P.C.Board, H-P.C.Board, J-P.C.Board ..... | 50        |  |           |   |    |  |           |   |           |  |           |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 6.18. Replacement of Incidence Polarizer (G) .....             | 17        | 11.8. B-Module (1/2) .....                                     | 51        | 6.19. Replacement of PBS Array (Analysis Block) .....     | 17 | 11.9. B-Module (2/2) .....                                     | 52        | 6.20. Removal of Iris Unit .....                          | 18        | <b>7 Measurement and Adjustments .....</b>                     | <b>19</b> | <b>12 Circuit Boards .....</b>                            | <b>53</b> | 7.1. Adjustment Procedure Flowchart .....                      | 19        | 12.1. A-P.CBoard .....                                    | 53        | 12.2. J-P.C.Board/S-P.C.Board .....                            | 54        | <b>13 Terminal guide of ICs and transistors .....</b>    | <b>55</b> | <b>14 Exploded Views .....</b>                                 | <b>56</b> | <b>15 Replacement Parts List .....</b>                   | <b>60</b> |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 11.8. B-Module (1/2) .....                                     | 51        |  |           |   |    |  |           |   |           |  |           |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 6.19. Replacement of PBS Array (Analysis Block) .....          | 17        | 11.9. B-Module (2/2) .....                                     | 52        | 6.20. Removal of Iris Unit .....                          | 18 | <b>7 Measurement and Adjustments .....</b>                     | <b>19</b> | <b>12 Circuit Boards .....</b>                            | <b>53</b> | 7.1. Adjustment Procedure Flowchart .....                      | 19        | 12.1. A-P.CBoard .....                                    | 53        | 12.2. J-P.C.Board/S-P.C.Board .....                            | 54        | <b>13 Terminal guide of ICs and transistors .....</b>     | <b>55</b> | <b>14 Exploded Views .....</b>                                 | <b>56</b> | <b>15 Replacement Parts List .....</b>                   | <b>60</b> |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 11.9. B-Module (2/2) .....                                     | 52        |  |           |   |    |  |           |   |           |  |           |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 6.20. Removal of Iris Unit .....                               | 18        |  |           |   |    |  |           |   |           |  |           |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| <b>7 Measurement and Adjustments .....</b>                     | <b>19</b> | <b>12 Circuit Boards .....</b>                                 | <b>53</b> |   |    |  |           |   |           |  |           |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 7.1. Adjustment Procedure Flowchart .....                      | 19        | 12.1. A-P.CBoard .....   | 53        | 12.2. J-P.C.Board/S-P.C.Board .....                       | 54 | <b>13 Terminal guide of ICs and transistors .....</b>          | <b>55</b> | <b>14 Exploded Views .....</b>                            | <b>56</b> | <b>15 Replacement Parts List .....</b>                         | <b>60</b> |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 12.1. A-P.CBoard .....   | 53        |  |           |   |    |  |           |   |           |  |           |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| 12.2. J-P.C.Board/S-P.C.Board .....                            | 54        |  |           |   |    |  |           |   |           |  |           |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| <b>13 Terminal guide of ICs and transistors .....</b>          | <b>55</b> |  |           |   |    |  |           |   |           |  |           |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| <b>14 Exploded Views .....</b>                                 | <b>56</b> |  |           |   |    |  |           |   |           |  |           |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |
| <b>15 Replacement Parts List .....</b>                         | <b>60</b> |  |           |   |    |  |           |   |           |  |           |   |           |  |           |   |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |  |           |  |           |  |           |  |           |   |           |   |           |   |           |   |           |                                  |           |  |           |                                |           |   |    |   |           |                                     |           |   |           |                                |           |  |           |

# 1 Safety Precautions

## 1.1. General Guidelines

- For continued safety, no modification of any circuit must be attempted.
- Unplug the power cord from the power outlet before disassembling this projector.
- It is advisable to use an isolation transformer in the AC power line before the service.
- Observe the original lead dress during the service. If a short circuit is found, replace all the parts overheated or damaged by the short circuit.
- After the service, all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations must be properly installed.
- After the service, check the leakage current to prevent the customer from getting an electric shock.

## 1.2. Leakage Current Check

- Prepare the measuring circuit as shown in Fig.1.

Be sure to use a voltmeter having the performance described in Table 1.

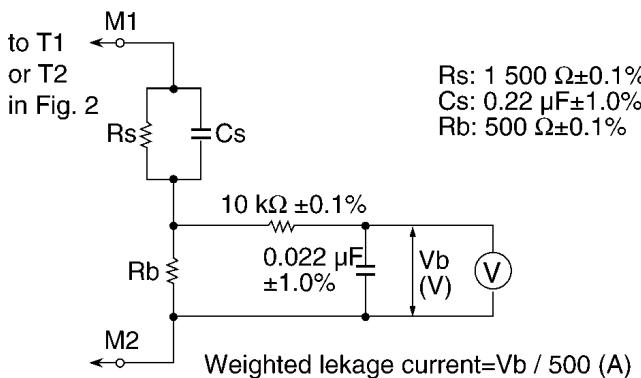


Fig. 1

|                            | Performance   |
|----------------------------|---|
| Voltmeter<br>(rms reading) | Accuracy: $\leq 2\%$<br>Input resistance: $\geq 1\ M\Omega$<br>Input capacitance: $\leq 200\ pF$<br>Frequency range: $15\ Hz$ to $1\ MHz$ |

Table 1

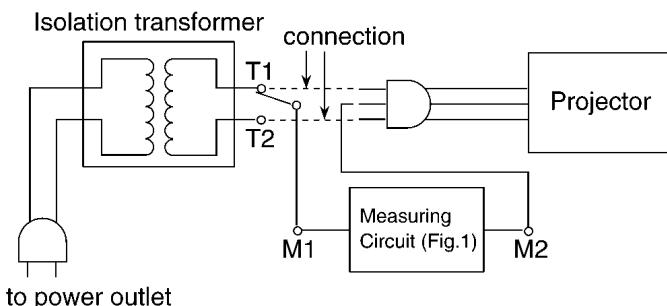


Fig. 2

- Assemble the circuit as shown in Fig. 2. Plug the power cord in a power outlet.

- Connect M1 to T1 according to Fig. 2 and measure the voltage.
- Change the connection of M1 from T1 to T2 and measure the voltage again.
- The voltmeter must read 0.375 V or lower in both of steps 3 and 4. This means that the current must be 0.75 mA or less.
- If the reading is out of the above standard, the projector must be repaired and rechecked before returning to the customer because of a possibility of an electric shock.

## 1.3. UV Precaution and UHM Lamp Precautions

- Be sure to unplug the power cord from the power outlet when replacing the lamp.
- Because the lamp reaches a very high temperature during its operation, wait until it cools completely when replacing the Lamp Unit.
- The lamp emits small amounts of UV-radiation, avoid direct eye contact with the light.
- Because the high pressure lamp involves a risk of explosion, never touch the lamp wire lead during the service. (See Fig. 3)

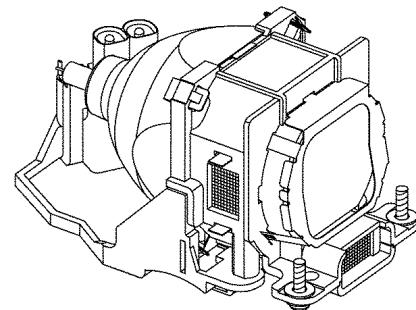


Fig. 3

## 2 Ext Option

This projector has EXT OPTION in addition to standard on-screen menus.

- There are SELF CHECK, SERVICE MODE and FLICKER ADJ for service, etc.

### 2.1. Procedure to enter EXT OPTION

1. Press "MENU" button on the main unit or remote control unit to display "MENU" screen, then select "OPTION" and press "ENTER" button.
2. Select "OSD" on "OPTION" menu and press "ENTER" button 3 seconds or longer.

MENU → OPTION → OSD

### 2.2. EXT OPTION Menu and Functions

#### EXT OPTION

|              |                  |
|--------------|------------------|
| FREEZE MSG   | OFF / ON         |
| PIC.SHIFT    | OFF / ON         |
| RUNTIME PRT  | OFF / ON         |
| FAN FULLMODE | OFF / ON         |
| AUTO SETUP   | NORMAL / SPECIAL |
| SELF CHECK   |                  |
| SERVICE MODE |                  |
| FLICKER ADJ  |                  |

#### • FREEZE MSG

Switching ON/OFF "FREEZE" on-screen display

#### • PIC.SHIFT

Switching ON/OFF the antipersistence function

- Shifts the picture slightly (by one dot) when every 60 minutes. (one dot shifting three times, one dot shifting three times in reverse direction, and repeats them alternately.)

#### • RUNTIME PRT

Switching ON/OFF the shutdown when the operation time for the lamp unit is 2 000 hours or longer

#### • FAN CONTROL

Setting the cooling fan motor rotation speed

- Switching ON "FAN FULLMODE", the rotation level of the fan becomes high-speed rotation (fixed). Moreover, when "FAN FULLMODE" is ON, changing "FAN CONTROL" in OPTION becomes impossible (setting FAN FULLMODE is given priority more than FAN CONTROL).

#### • AUTOSETUP

Setting AUTO SETUP mode

- NORMAL: To set the normal mode (the dot clock is adjusted strictly)
- SPECIAL: To set the special mode (the dot clock is adjusted roughly)

\* Do not change the initial setting (NORMAL).

#### • SELF CHECK

To enter the self-check mode

#### • SERVICE MODE

To enter the service mode

#### • FLICKER ADJ

To enter the flicker adjustment mode

### 2.3. Canceling EXT OPTION

Press "MENU" button on the main unit or remote control unit.

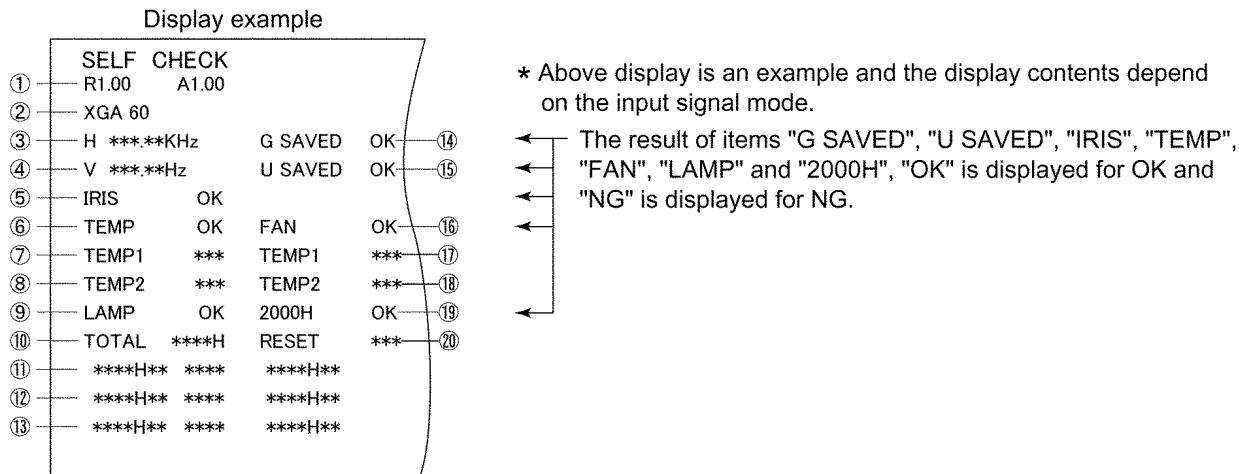
### 3 Self-Check Mode

This mode is used to narrow down the location of the failure.

#### 3.1. Procedure to enter the self-check mode

Select "SELF CHECK" on "EXT OPTION" menu and press "ENTER" button on the main unit or remote control unit.

#### 3.2. Self Check Display and Contents



|   | Display Contents  | Remarks  |  |  |
|---|---|--|--|--|
| ① | Microcomputer / FPGA Software Version Display *1                    | Microcomputer (IC1010) and FPGA (IC1032) software versions are shown from the left.      |  |  |
| ② | Signal Name   | Different display according to the input signal  |  |  |
| ③ | Horizontal Signal Frequency   | RGB or YPB <sub>P</sub> R (YC <sub>B</sub> C <sub>R</sub> ) signal reception only        |  |  |
| ④ | Vertical Signal Frequency   | RGB or YPB <sub>P</sub> R (YC <sub>B</sub> C <sub>R</sub> ) signal reception only        |  |  |
| ⑤ | Iris Abnormality Check  | It is distinguished whether the iris operates normally.                                  |  |  |
| ⑥ | Temperature Abnormality Check                                       | Cause of Lamp Malfunction  |  |  |
| ⑦ | Thermosensor 1 A/D conversion value (0 - 255) *2                    | Current temperature around the LCD panel   |  |  |
| ⑧ | Thermosensor 2 A/D conversion value (0 - 255) *2                    | Current temperature around the air intake slot (Detects air filter's choke, etc.)        |  |  |
| ⑨ | Lamp Abnormality Check  | Cause of Lamp Malfunction  |  |  |
| ⑩ | Total Usage Time  | Projector Cumulative Usage Time  |  |  |
| ⑪ | Lamp ON - Cumulative Usage Time / Frequency / Cumulative Usage Time | Current  | Cumulative Usage Time (actual time), ON Frequency and Cumulative Usage Time (conversion time for 130 W) of the lamp are shown from the left. |  |
| ⑫ |   | Second   |  |  |
| ⑬ |   | First  |  |  |
| ⑭ | Gamma Correction Data Check   | It is distinguished whether gamma data is stored in the flash ROM.                       |  |  |
| ⑮ | Color Unevenness Correction Data Check                              | It is distinguished whether color unevenness correction data is stored in the flash ROM. |  |  |
| ⑯ | Fan Stop Check  | Cause of Lamp Malfunction  |  |  |
| ⑰ | Thermosensor 1 A/D conversion value (0 - 255) *2                    | Temperature around the LCD panel when the last thermal shutdown occurs                   |  |  |
| ⑱ | Thermosensor 2 A/D conversion value (0 - 255) *2                    | Temperature around the air intake slot when the last thermal shutdown occurs             |  |  |
| ⑲ | Lamp - Judgment for Cumulative Usage more than 2 000 h              | Judgment for Replacement Time of Lamp  |  |  |
| ⑳ | Lamp - Reset Frequency of Cumulative Usage Time                     | Reset Frequency (0 - 255)  |  |  |

\*1 FPGA (Field Programmable Gate Array)

LSI that is rewritable quickly while inspecting the program by system designer. (This will be able to reduce the development time.)

\*2 When detected abnormal temperature (high temperature around the LCD panel, large difference between temperature at the air intake slot and temperature around the LCD panel), TEMP indicator turned on. If arriving at the critical temperature, the power supply will shut down automatically (thermal shutdown) and the indicator will flash.

### 3.3. Canceling the self-check mode

Press "MENU" button on the main unit or remote control unit.

## 4 Service Mode

This mode is used to display seven kinds of test patterns [Horizontal lines, Vertical lines, Dots, Crosshatch, White cross, Black cross and White (No pattern)] in the four colors (White, Red, Green and Blue).

**Note:**

- On the service mode, displays above patterns by each color without test equipment such as PC or SG. Use the service mode for simplified adjustments by your eyes and so on.

### 4.1. Procedure to enter the service mode

Select "SERVICE MODE" on "EXT OPTION" menu and press "ENTER" button on the main unit or remote control unit.

**Note:**

- In the service mode, pressing the up-arrow "▲" or down-arrow "▼" button allows the test pattern selection and the left-arrow "◀" or right-arrow "▶" button the color selection (White / Red / Green / Blue).

### 4.2. Canceling the service mode

Press "MENU" button on the main unit or remote control unit.

## 5 Flicker Adjustment Mode

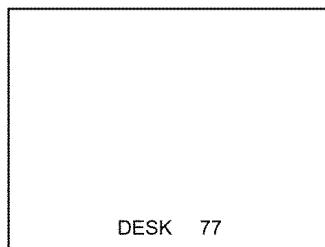
If replacing the optical parts (LCD Panel / LCD block) or A-P.C.Board of this projector, enter the flicker adjustment mode and minimize the flicker.

### 5.1. Procedure to enter the adjustment mode

Select "FLICKER ADJ" on "EXT OPTION" menu and press "ENTER" button on the main unit or remote control unit.

**Note:**

"DESK setting (blue)" is displayed when entering the adjustment mode.



Adjustment Display when DESK setting

### 5.2. Adjustment Display and Contents

- Setting value is increased and decreased with the right-arrow "▶" and left-arrow "◀" buttons.  
"◀": Decrease, "▶": Increase
  - Adjust the setting value to minimize the flicker on the screen.
  - Execute the adjustment by 6 patterns below.
- The pattern (adjustment display) is switched with the up-arrow "▲" and down-arrow "▼" buttons.  
"▲": Forward direction, "▼": Reverse direction
  - There are 6 patterns of "DESK setting (blue)", "DESK setting (red)", "DESK setting (green)", "CEILING setting (blue)", "CEILING setting (red)" and "CEILING setting (green)".
  - The setting value is saved into this projector when the pattern is switched.

### 5.3. Canceling the flicker adjustment mode

Press "MENU" button on the main unit or remote control unit.

**Note:**

When "MENU" button is pressed, the setting value at that time is saved into this projector and the adjustment mode is canceled.

## 6 Disassembly Instructions

### Warning:

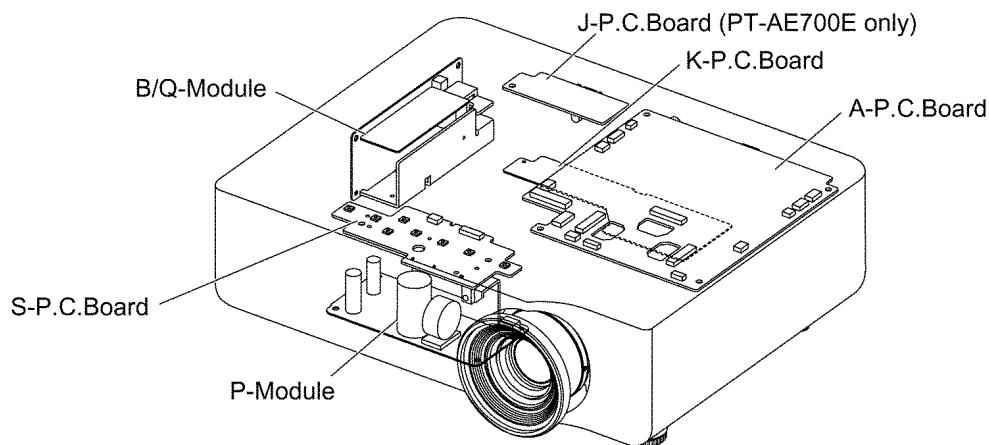
- Be sure to unplug the power cord from the power outlet before disassembling this projector.

### Caution:

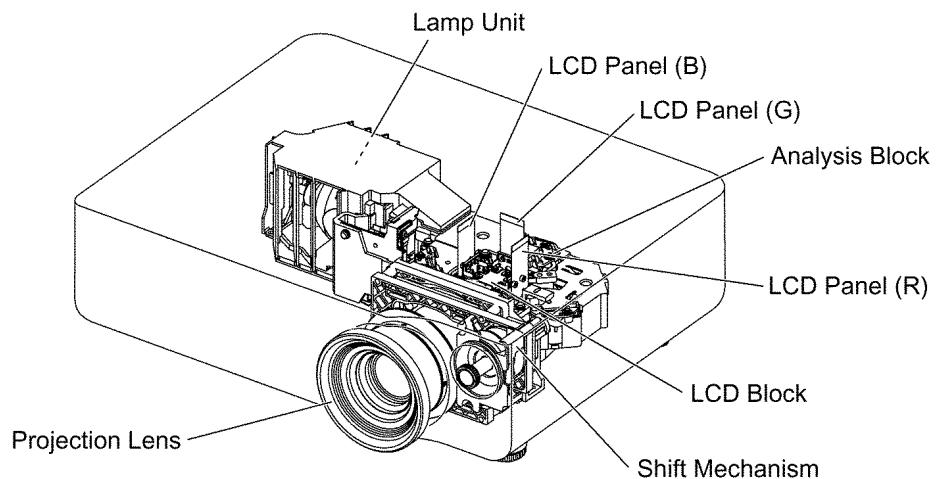
- While turning over a printed circuit board, be sure to put a insulating material under it to prevent a short circuit.
- Printed circuit boards and wires must not be pulled forcibly, but be handled carefully.
- Connectors also must be handled carefully.
- After repairing this projector, be sure to put back the wires and connectors to the original condition.

### 6.1. Printed Circuit Board and Main Parts Location

#### Electrical Parts

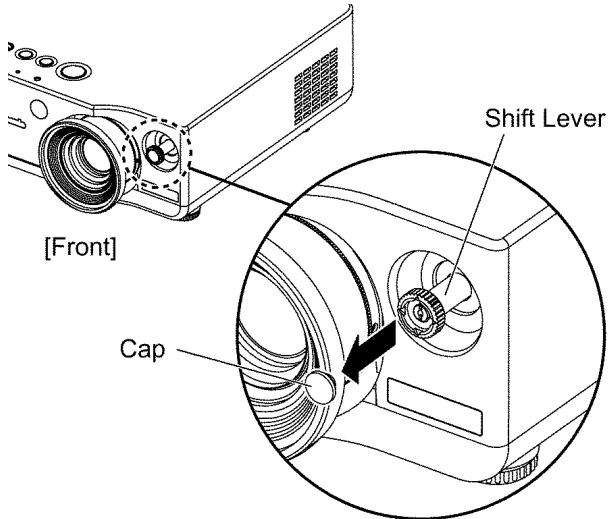


#### Optical Parts



## 6.2. Removal of Upper Case

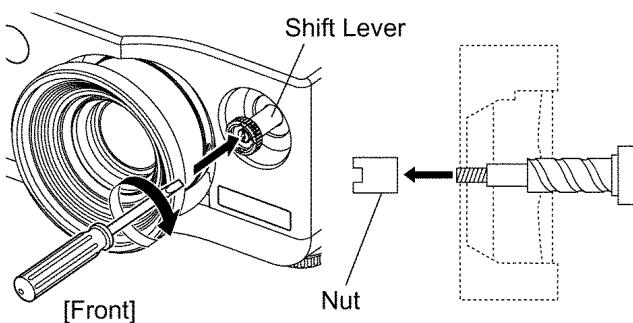
1. Remove the cap of the lens shift lever.



2. Unscrew the nut in the shift lever.

**Note:**

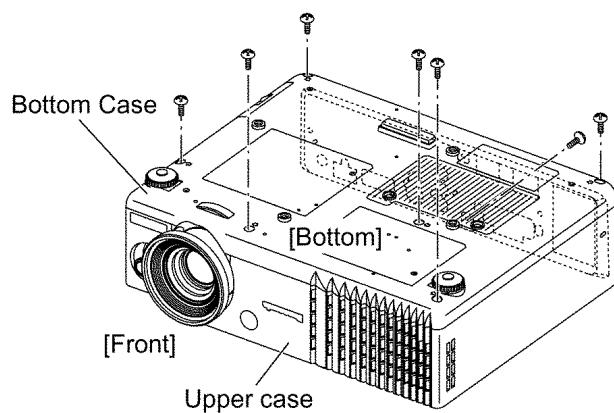
- Turn clockwise the nut to unscrew.



3. Turn counterclockwise the shift lever and remove it.

4. Turn the projector upside down.

5. Unscrew the 7 screws.

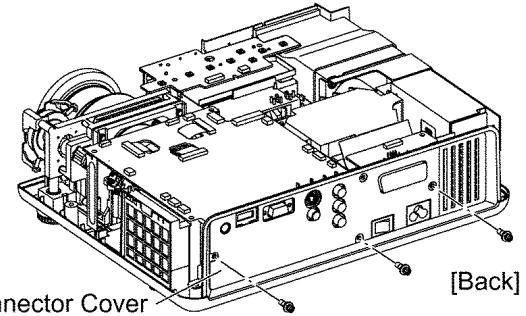


6. Return the projector to the normal position.

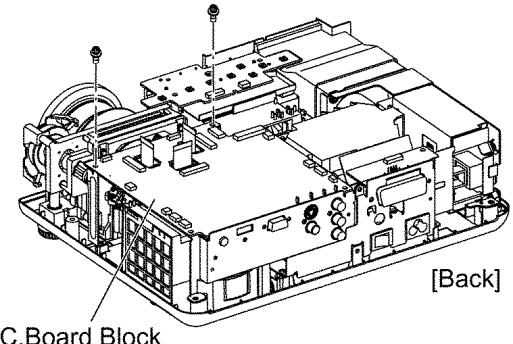
7. Remove the upper case.

## 6.3. Removal of A-P.C.Board

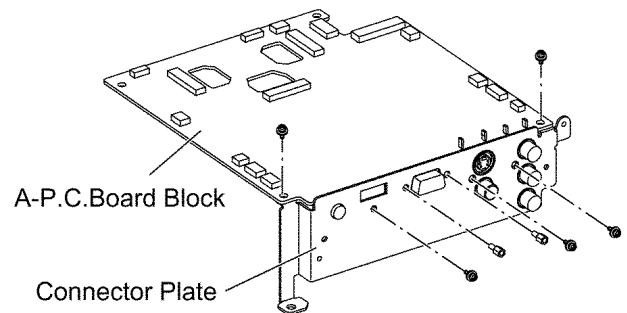
1. Remove the upper case according to the section 6.2. "Removal of Upper Case".
2. Unscrew the 3 screws and remove the connector cover.



3. Unscrew the 2 screws and remove the A-P.C.Board block.

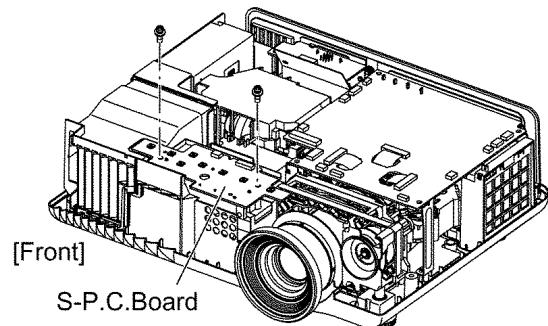


4. Unscrew the 7 screws and remove the connector plate.



## 6.4. Removal of S-P.C.Board

1. Remove the upper case according to the section 6.2. "Removal of Upper Case".
2. Unscrew the 2 screws and remove the S-P.C.Board.

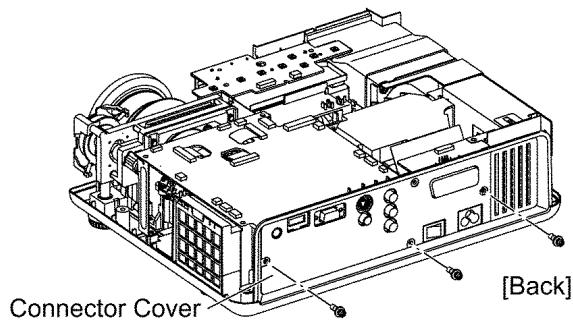


## 6.5. Removal of J-P.C.Board (PT-AE700E only)

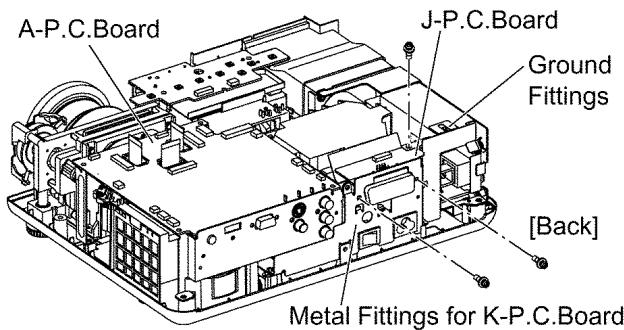
1. Remove the upper case according to the section 6.2.

"Removal of Upper Case".

- Unscrew the 3 screws and remove the connector cover.

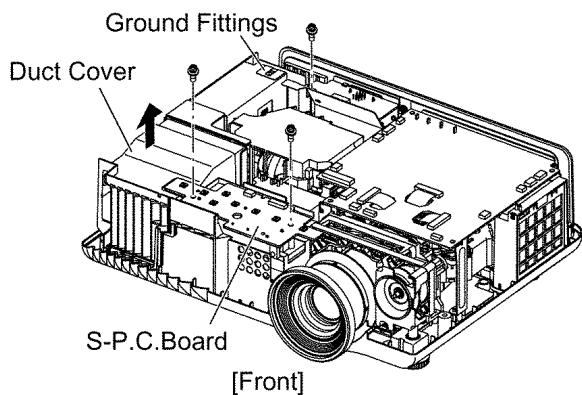


- Unscrew the 3 screws and remove the J-P.C.Board.

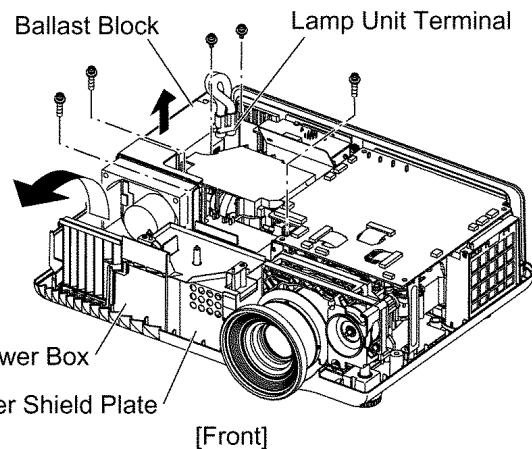


## 6.6. Removal of B/Q-Module

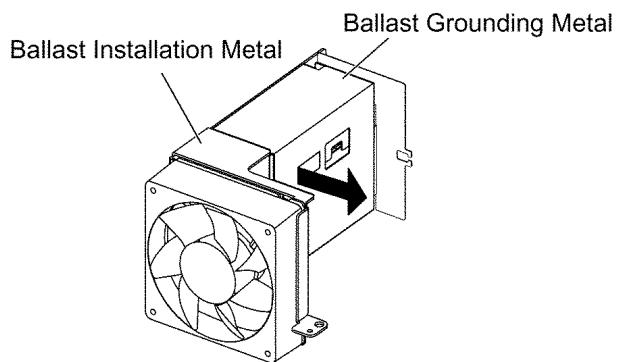
- Remove the upper case according to the section 6.2 "Removal of Upper Case".
- Unscrew the 2 screws and remove the S-P.C.Board.
- Unhook the hook section and remove the duct cover.
- Unscrew the 1 screw and remove the ground fittings.



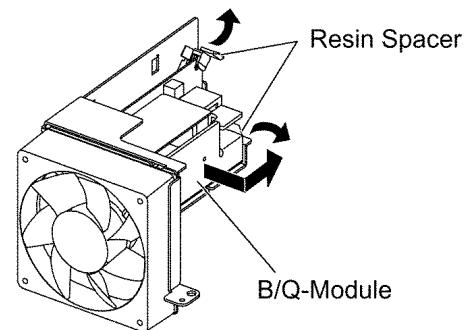
- Unscrew the 1 screw and release the ballast block.
- Unscrew the 2 screws and remove the power box with power shield plate.
- Unscrew the 2 screws and release the lamp unit terminal.



- Disconnect the connector P2 and remove the ballast block.
- While sliding the ballast grounding metal, unhook the hook section and remove it.

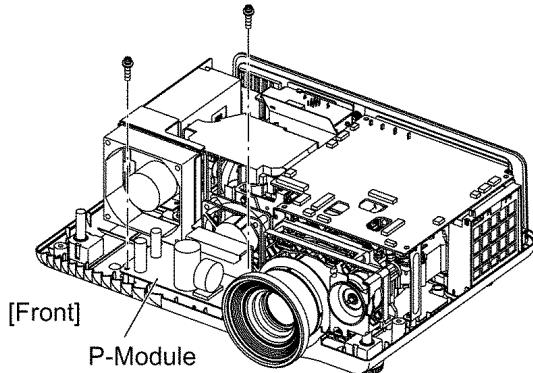


- Unhook the hook section of resin spacer and remove the B/Q-Module.



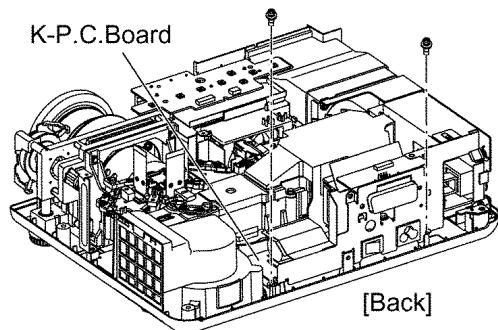
## 6.7. Removal of P-Module

- Remove the power box according to the steps 1 through 5 in the section 6.6. "Removal of B/Q-Module".
- Unscrew the 2 screws and remove the P-Module.

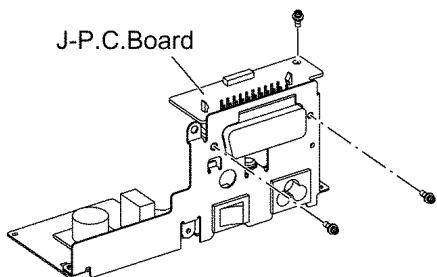


## 6.8. Removal of K-P.C.Board

1. Remove the A-P.C.Board block according to the steps 1 through 3 in the section 6.3. "Removal of A-P.C.Board".
2. Unscrew the 2 screws and remove the K-P.C.Board block.

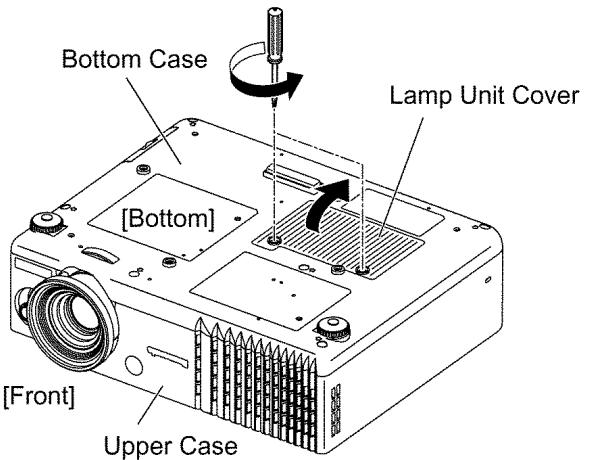


3. For PT-AE700E, unscrew the 2 screws and remove the J-P.C.Board.

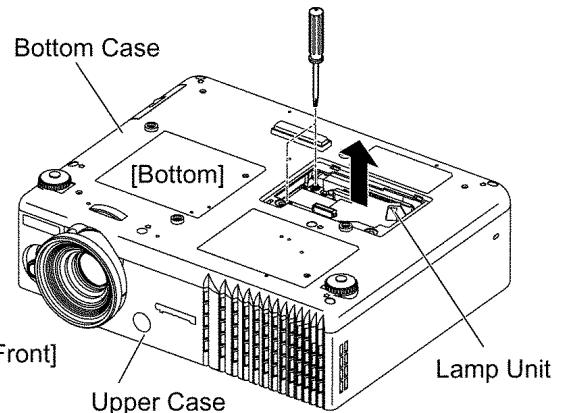


## 6.9. Removal of Lamp Unit

1. Turn the projector upside down.
2. Loosen the 2 screws until they idle and remove the lamp unit cover.

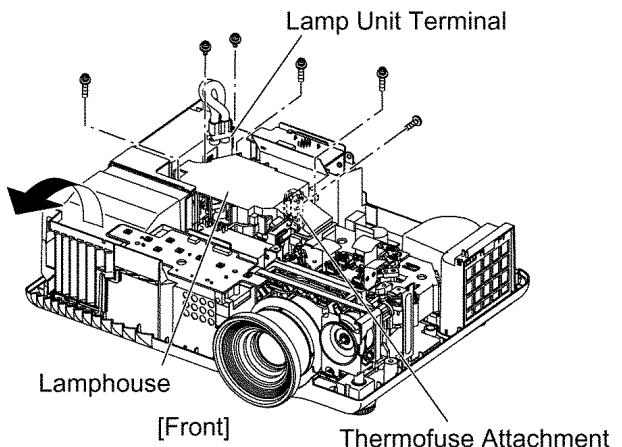


3. Unscrew the 2 screws fixing the lamp unit and remove the lamp unit.

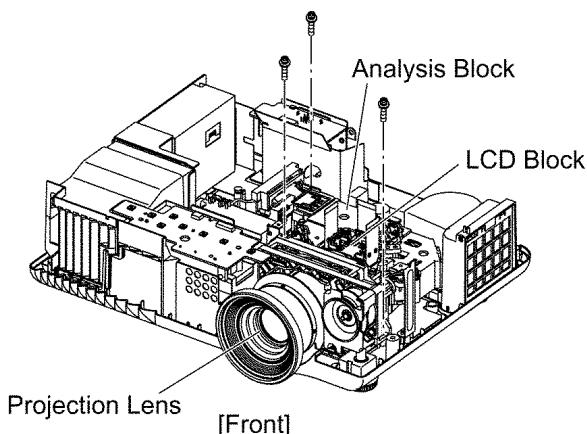


## 6.10. Removal of Analysis Block and Projection Lens

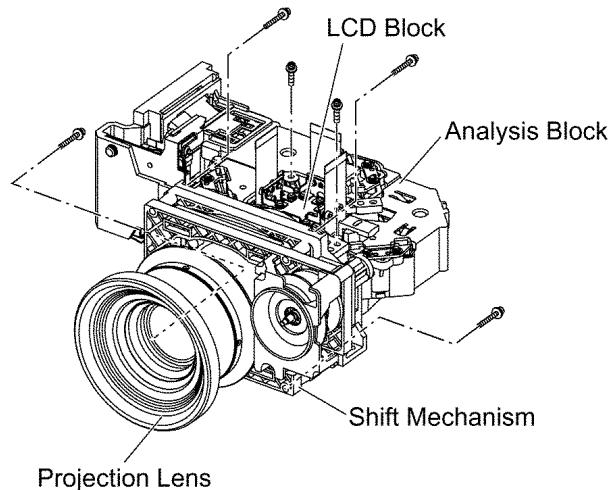
1. Remove the lamp unit according to the section 6.9. "Removal of Lamp Unit".
2. Remove the A-P.C.Board block according to the steps 1 through 3 in the section 6.3. "Removal of A-P.C.Board".
3. Unscrew the 2 screws and release the lamp unit terminal.
4. Unscrew the 1 screw and remove the thermofuse attachment.
5. Unscrew the 3 screws and remove the lamphouse.



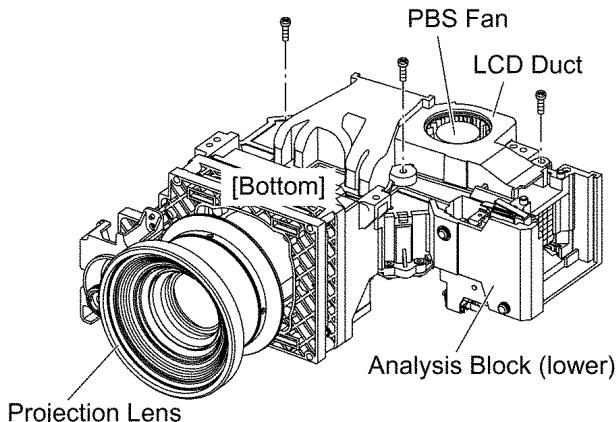
6. Unscrew the 3 screws and remove the block of Analysis Block, LCD Block and Projection Lens Block.



7. Unscrew the 2 screws and remove the LCD block.  
8. Unscrew the 4 screws and remove the projection lens block (with shift mechanism).

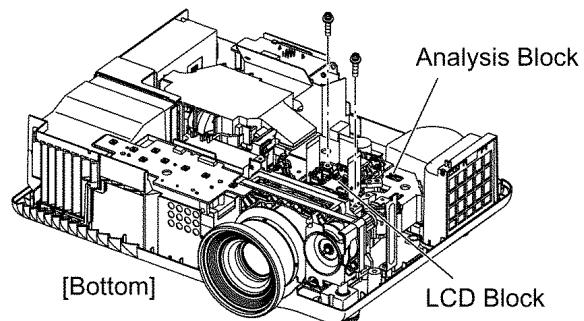


9. Unscrew the 3 screws and remove the LCD duct and PBS fan.



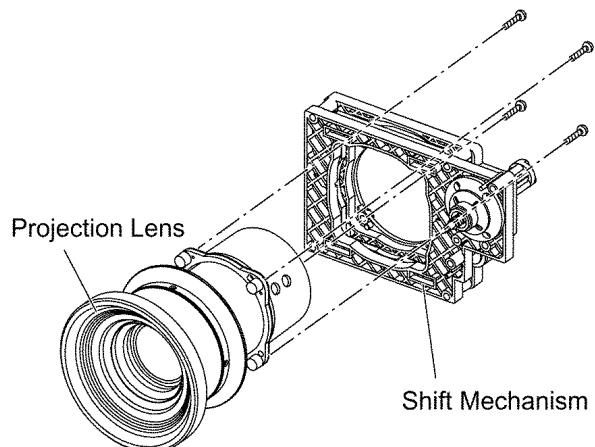
## 6.11. Removal of LCD Block

1. Remove the A-P.C.Board block according to the steps 1 through 3 in the section 6.3. "Removal of A-P.C.Board".
2. Unscrew the 2 screws and remove the LCD block.



## 6.12. Removal of Projection Lens

1. Remove the projection lens block according to the steps 1 through 8 in the section 6.10. "Removal of Analysis Block and Projection Lens".
2. Unscrew the 4 screws and separate the projection lens and the shift mechanism.



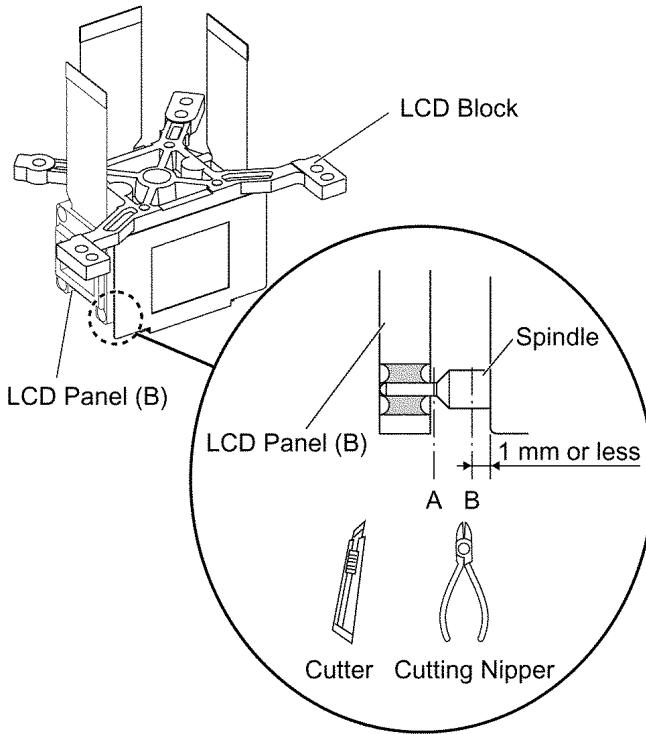
## 6.13. Replacement of LCD Panel

- The procedure is described as an example of LCD panel (B).

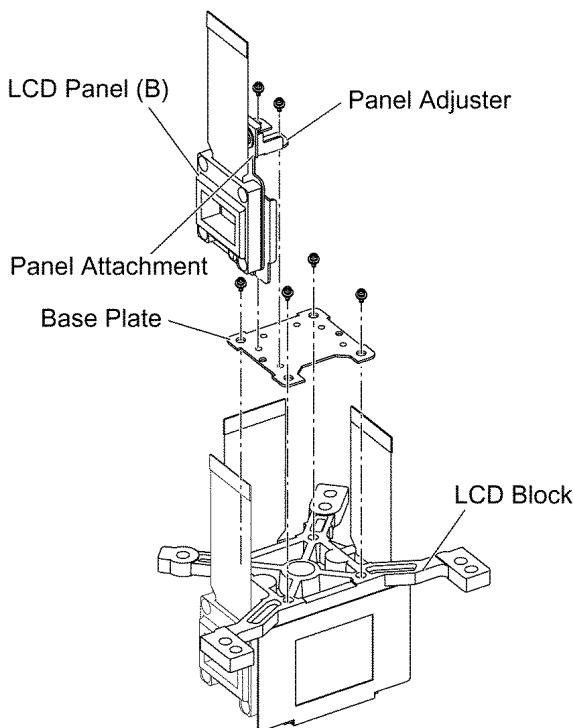
1. Remove the LCD block according to the section 6.11. "Removal of LCD Block".
2. Cut the 4 LCD panel installation spindles at the position A and remove the LCD panel.
3. Cut the 4 LCD panel installation spindles at the position B and remove them.

### Notes:

- Work carefully not to apply external force around the spindle part by using a cutter, cutting nipper or the like for cutting the spindle.
- Adjust the height after the spindle is cut to 1 mm or less.



4. Attach the base plate with 4 screws.
5. Tighten the 2 screws temporarily just until new LCD panel (with the panel attachment and panel adjuster) can be shifted by your fingers.

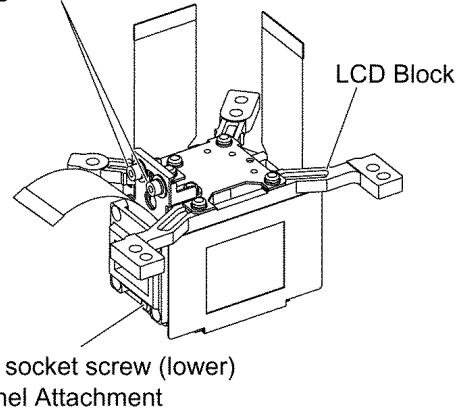


6. Reassemble the projector in the reverse order of disassembling, but leave the upper case and the screws fixing the A-P.C.Board block as they are removed.
7. Adjust the convergence according to the section 7.4. "Convergence Adjustment".
8. After the adjustment, while paying attention not to vary the adjusting result, tighten the 2 screws (upper) fixing the panel attachment temporarily with a hexagon head wrench.

#### Note:

- Prepare a hexagon head wrench processed short.
- 9. Remove the LCD block again.
- 10. Tighten the 3 screws fixing the panel attachment.

Hexagon socket screws  
(upper) fixing Panel Attachment



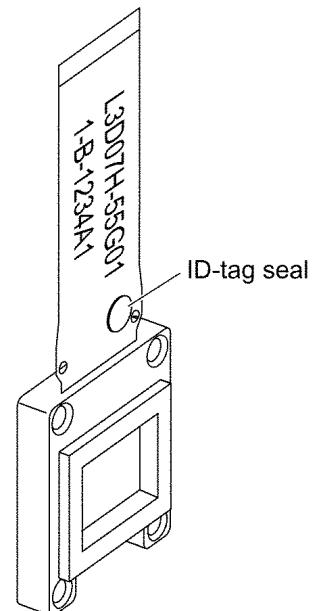
Hexagon socket screw (lower)  
fixing Panel Attachment

11. Adhere the shading sheet as it was.
12. Reassemble the projector as it was.

## 6.14. LCD Panel Discrimination

| ID-tag seal color | LCD panel     |
|-------------------|---------------|
| Red               | LCD panel (R) |
| Blue              | LCD panel (B) |
| (No seal)         | LCD panel (G) |

- Since the ID-tag seal is pasted to the FPC of LCD Panel, (R), (G) or (B) can be easily identified by the color of the seal.
- Finally, identify the panel color by the part number printed on the FPC.



## 6.15. LCD Panel Combination

- Part number is printed on the FPC of LCD Panel.
- When replacing LCD Panel, use a component which has the same part number as the original.

| LCD panel | Combination 1                  | Combination 2                  |
|-----------|--------------------------------|--------------------------------|
| R         | L5BDAXQ00188<br>(L3D07H-55G01) | L5BDAXQ00191<br>(L3D07H-56G01) |
| G         | L5BDAXQ00192<br>(L3D07H-56G01) | L5BDAXQ00189<br>(L3D07H-55G01) |
| B         | L5BDAXQ00190<br>(L3D07H-55G01) | L5BDAXQ00193<br>(L3D07H-56G01) |

## 6.16. Replacement of Projection Polarizer

1. Remove the LCD block according to the section 6.11. "Removal of LCD Block".
2. Remove the projection polarizer which requires replacing.  
(The projection polarizer is adhered with the adhesive tape.)

**Note:**

- Be careful not to damage peripheral components (prism, LCD panel, etc.).
- Use tweezers.

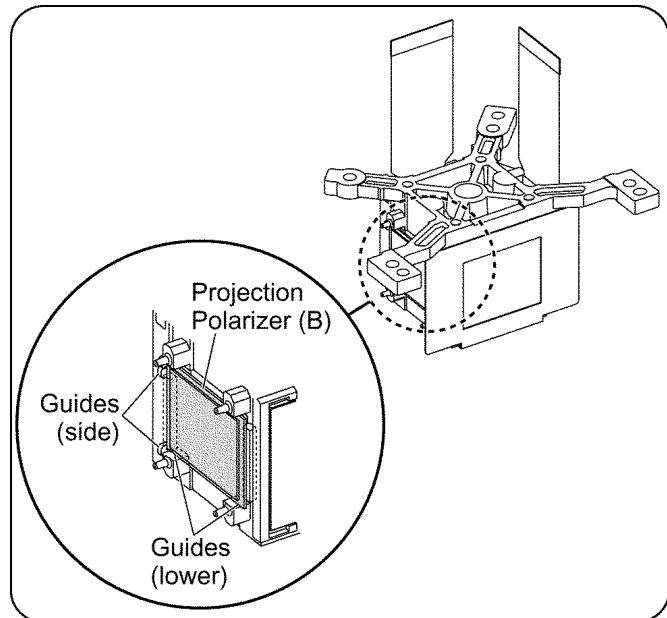
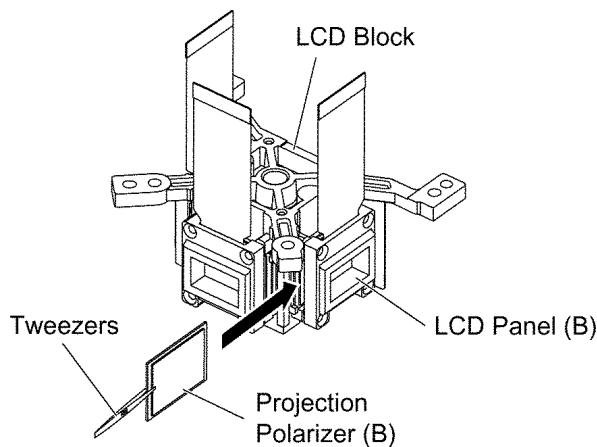
3. Install new projection polarizer.

- a. Put adhesive tape on the projection polarizer.
- b. Adhere the projection polarizer on the specified position.

**Notes:**

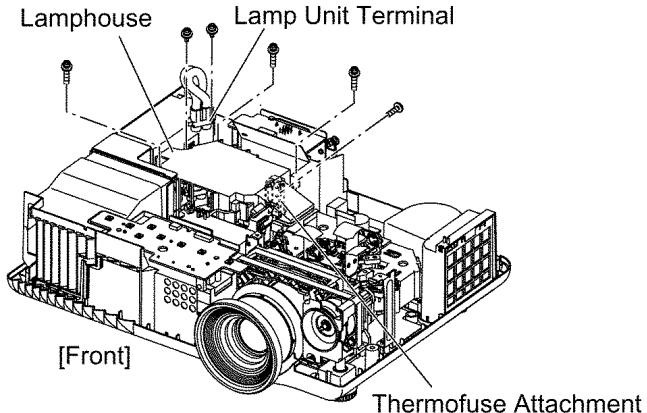
- Align the projection polarizer with the guides (lower, side) of LCD block.
- Be careful not to touch the surface of projection polarizer.
- Use tweezers.

- c. Press the adhesive part and secure the projection polarizer.



## 6.17. Replacement of Incidence Polarizer (R and B)

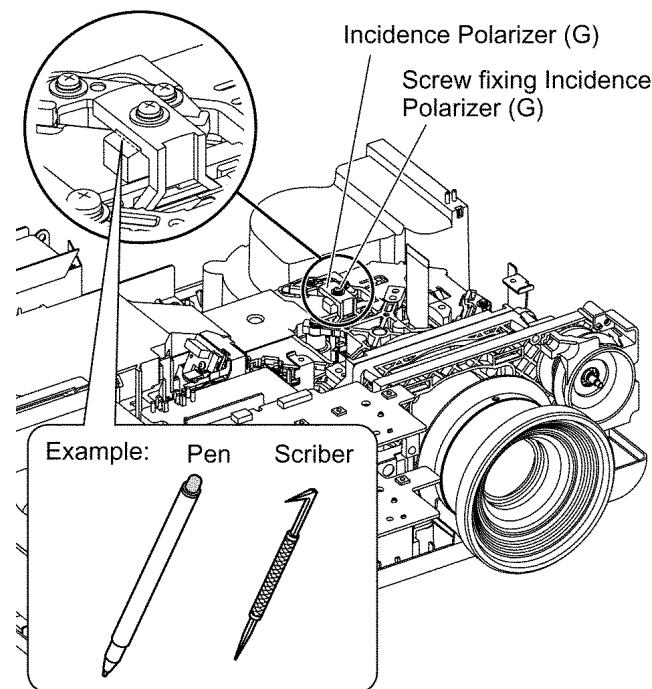
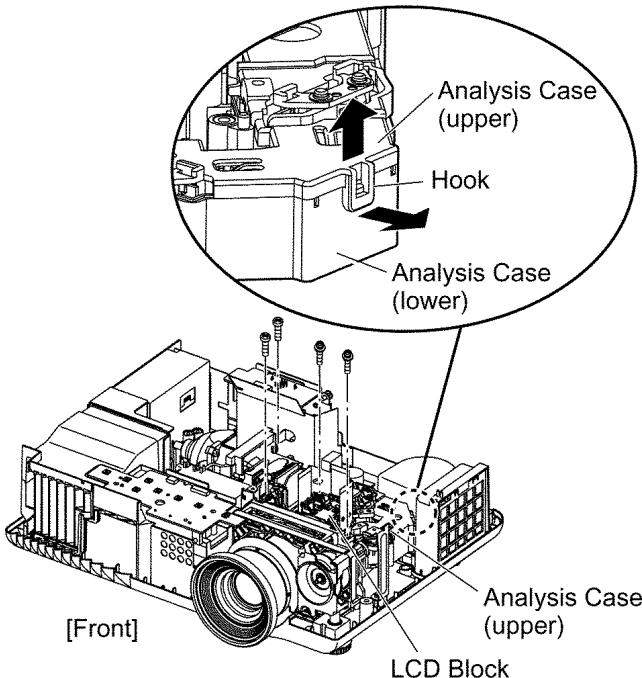
1. Remove the A.P.C.Board block according to the steps 1 through 3 in the section 6.3. "Removal of A-P.C.Board".
2. Unscrew the 2 screws and release the lamp unit terminal.
3. Unscrew the 1 screw and remove the thermofuse attachment.
4. Unscrew the 3 screws and remove the lamphouse.



5. Unscrew the 2 screws and remove the LCD block.
6. Unscrew the 2 screws and remove the analysis case (upper) while expanding the hook of it outside.

**Notes:**

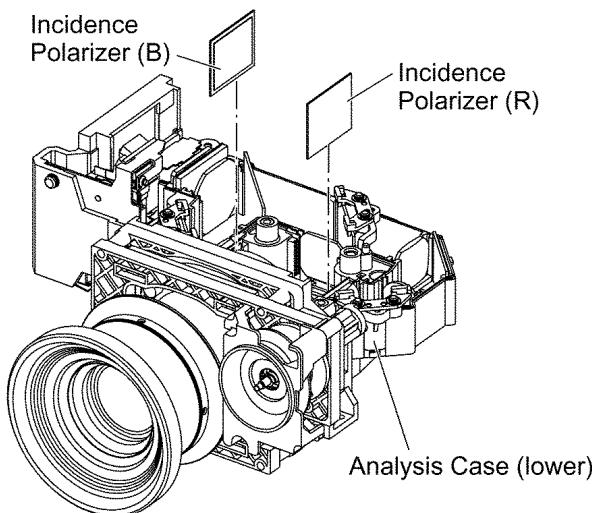
- Because the hook is damaged easily, be careful not to expand it excessively.
- The incidence polarizer (G) is installed in the analysis case (upper). Handle it with care.



#### 7. Replace the incidence polarizer.

##### Note:

- Be careful not to touch the surface of incidence polarizer.



## 6.18. Replacement of Incidence Polarizer (G)

1. Remove the A-P.C.Board block according to the steps 1 through 3 in the section 6.3. "Removal of A-P.C.Board".
2. Mark positions of the incidence polarizer (G).
3. Unscrew the 1 screw and remove the incidence polarizer.
4. Attach a new incidence polarizer and align it with the mark.
5. Tighten the 1 screw polarizer with care not to move the incidence polarizer position.

##### Note:

- Mark accurately as possible because the marks will be used for resetting the incidence polarizer position.

## 6.19. Replacement of PBS Array (Analysis Block)

1. Remove the analysis case (upper) according to the steps 1 through 6 in the section 6.17. "Replacement of Incidence Polarizer (R and B)".

##### Note:

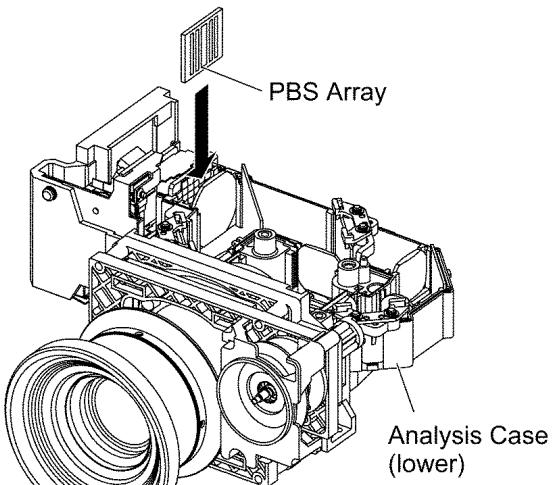
- Because the hook is damaged easily, be careful not to expand it excessively.

2. Remove the PBS array .

3. Install new PBS array.

##### Notes:

- Be careful not to mistake the direction (inside and outside).
- Be careful not to touch the surface of PBS array.

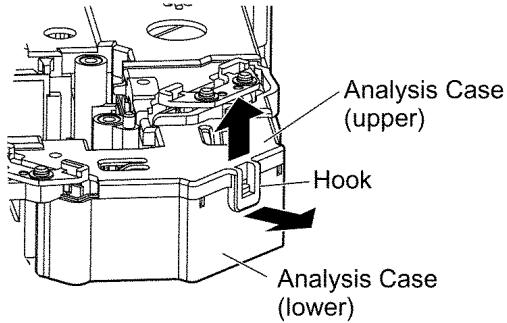


## 6.20. Removal of Iris Unit

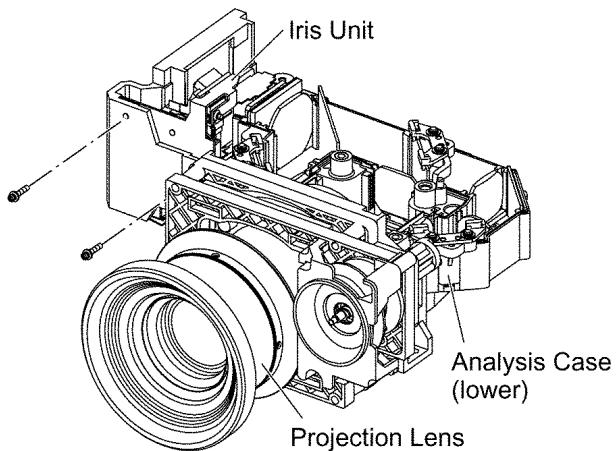
1. Remove the analysis Block according to the steps 1 through 7 in the section 6.10. "Removal of Analysis Block and Projection Lens".
2. Unscrew the 2 screws and remove the analysis case (upper) while expanding the hook of it outside.

**Notes:**

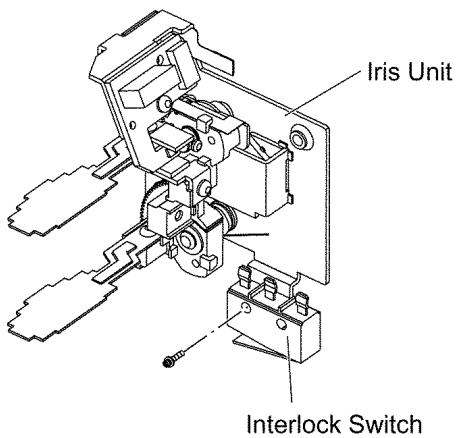
- Because the hook is damaged easily, be careful not to expand it excessively.
- The incidence polarizer (G) is installed in the analysis case (upper). Handle it with care.



3. Unscrew the 2 screws and remove the iris unit with interlock switch.

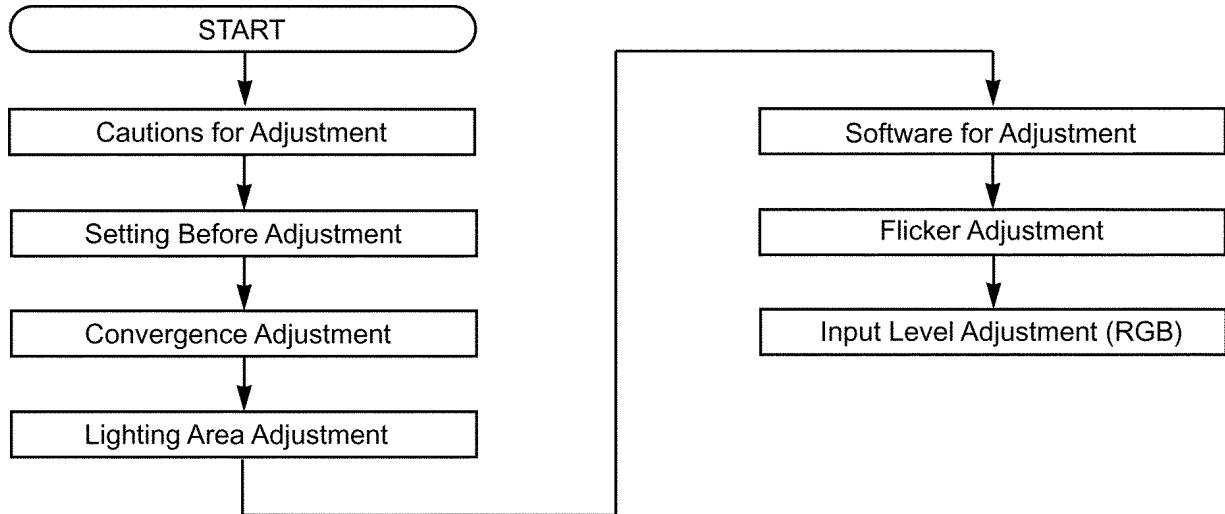


4. Unscrew the 1 screw and remove the interlock switch.



# 7 Measurement and Adjustments

## 7.1. Adjustment Procedure Flowchart

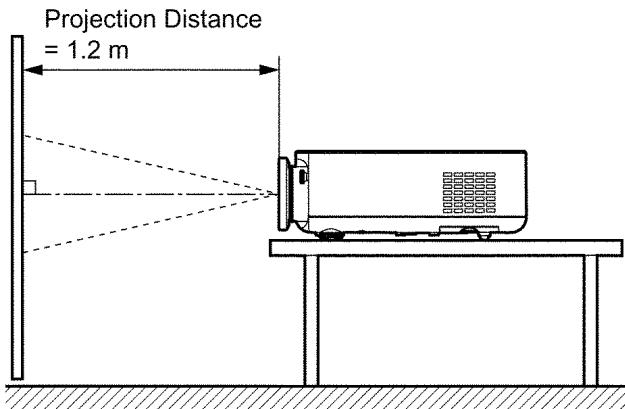


## 7.2. Cautions for Adjustment

- Never turn off the MAIN POWER switch until every fan completely stops.
- To maintain and ensure safety, always use the designated components for replacement parts.
- If removing any clamps, lead wires or connectors, always place them back in their proper locations.
- Be careful not to damage the lead wires or components when using a soldering iron or similar tool.

## 7.3. Setting Before Adjustment

- Set up the projector to obtain the projection distance below.
- Turn the zoom ring of the projector to obtain the largest size of the picture.



## 7.4. Convergence Adjustment

Execute this adjustment when replacing the LCD panel.

### 7.4.1. Tools to be used

Service Kit (Part No. TZSH07017): This kit is composed of 3

extension flexible cables and 3 connector extension cables.

#### Note:

- Consult your dealer or Authorized Service Center for the service kit.

### 7.4.2. Preparation

- Loosen 2 screws fixing the panel adjuster and 3 screws fixing the panel attachment, then tighten the 5 screws temporarily just until the LCD panel can be shifted by your fingers.

#### Note:

- See figures in the section 6.13. "Replacement of LCD Panel" for 2 screws fixing the panel adjuster and 3 screws fixing the panel attachment.

- Reassemble the projector in the reverse order of disassembling, but leave the upper case and the screws fixing the A-P.C.Board block as they are removed.

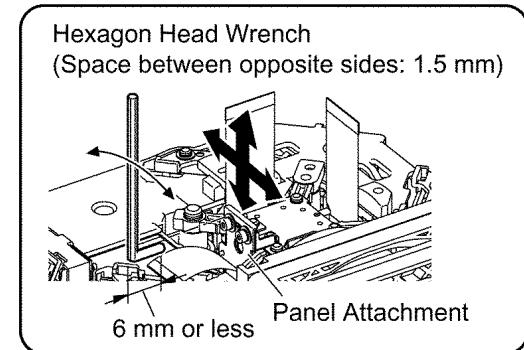
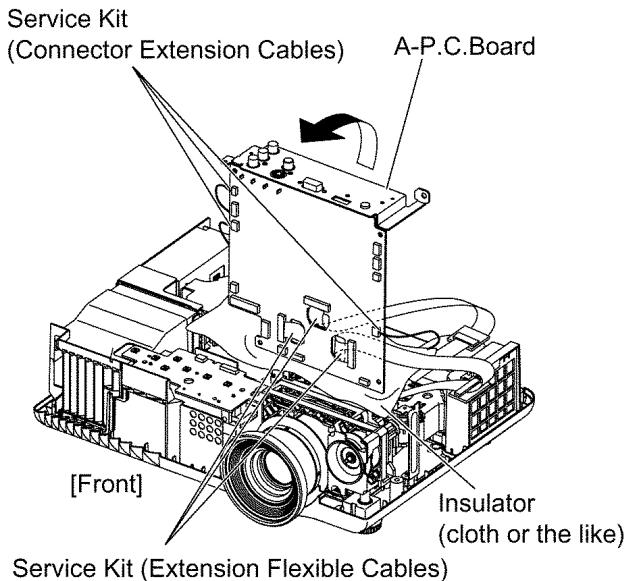
- Connect the service kit (extension cables).

- Each flexible cable of LCD Panels (R/G/B) - Connectors (A1/A2/A3) on A-P.C.Board
- Ballast block [Connector (Q3) on Q-Module] - Connector (A4) on A-P.C.Board
- Intake fan connector - Connector (A15) on A-P.C.Board
- PBS fan connector - Connector (A18) on A-P.C.Board

- Covering with an insulator (cloth or the like) to prevent a short circuit, set the A-P.C.Board block on the main unit.

#### Note:

- Handle with care not to apply external force to connecting parts which connect the main unit and A-P.C.Board.



### 7.4.3. Adjustment Procedure

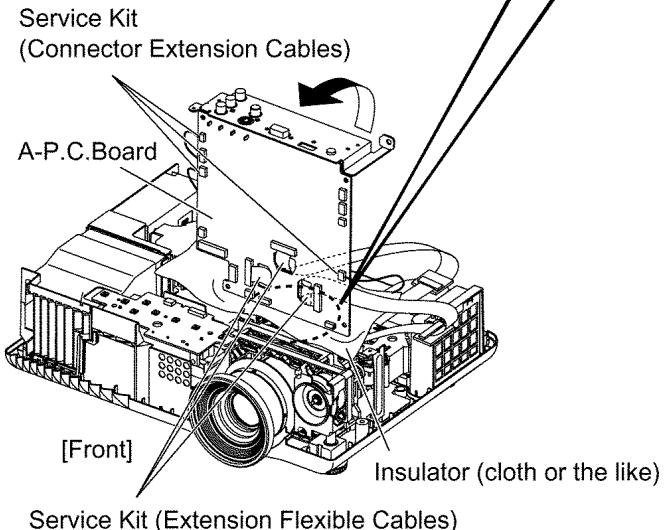
Prepare 2 pieces of thick black paper (23 mm × 100 mm) that can be shaded.

- Cover and shade LCD panels with the paper except the panel for adjustment.

#### 7.4.3.1. When replacing single LCD panel (R, G or B)

- The procedure is described as an example when LCD panel (B) is replaced.

1. Display the green crosshatch pattern and adjust the lens focus.
2. Display green and blue crosshatch patterns.
3. Adjust focus by shifting the panel adjuster for LCD panel (B) back and forth, then tighten the 2 screws.
4. Adjust the LCD panel (B) position so that the vertical center of blue crosshatch pattern is overlapped with the vertical center of green crosshatch pattern.
5. Adjust the LCD panel (B) position so that the horizontal center of blue crosshatch pattern is overlapped with the horizontal center of green crosshatch pattern.
6. Correct the tilt of the blue crosshatch pattern by adjusting the LCD panel (B) position.
7. Display green, red and blue crosshatch patterns and confirm the convergence. If it is necessary, fine adjust the convergence so that the red and/or blue crosshatch pattern is overlapped with green one.
8. After the adjustment, reassemble the projector according to the section 6.13. "Replacement of LCD Panel".



## 7.5. Lighting Area Adjustment

### 7.5.1. Tools to be used

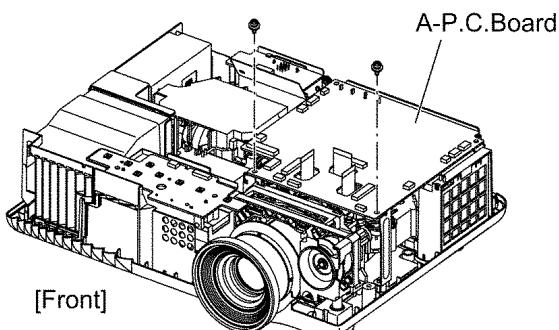
Service Kit (Part No. TZSH07017): This kit is composed of 3 extension flexible cables and 3 connector extension cables.

#### Note:

- Consult your dealer or Authorized Service Center for the service kit.

### 7.5.2. Preparation

1. Remove the upper case and the connector cover according to the steps 1 through 2 in the section 6.3. "Removal of A-P.C. Board".
2. Unscrew the 2 screws.



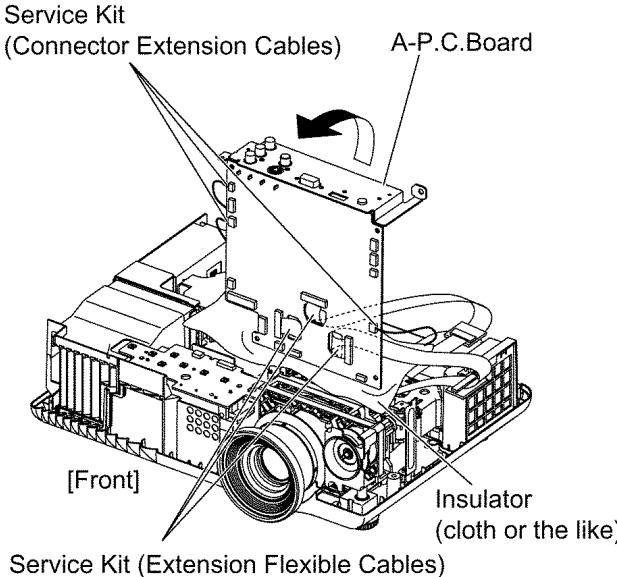
3. Connect the service kit (extension cables).
  - Each flexible cable of LCD Panels (R/G/B) - Connectors (A1/A2/A3) on A-P.C. Board

- Ballast block [Connector (Q3) on Q-Module] - Connector (A4) on A-P.C.Board
- Intake fan connector - Connector (A15) on A-P.C.Board
- PBS fan connector - Connector (A18) on A-P.C.Board

4. Covering with an insulator (cloth or the like) to prevent a short circuit, set the A-P.C.Board block on the main unit.

**Note:**

- Handle with care not to apply external force to connecting parts which connect the main unit and A-P.C.Board.



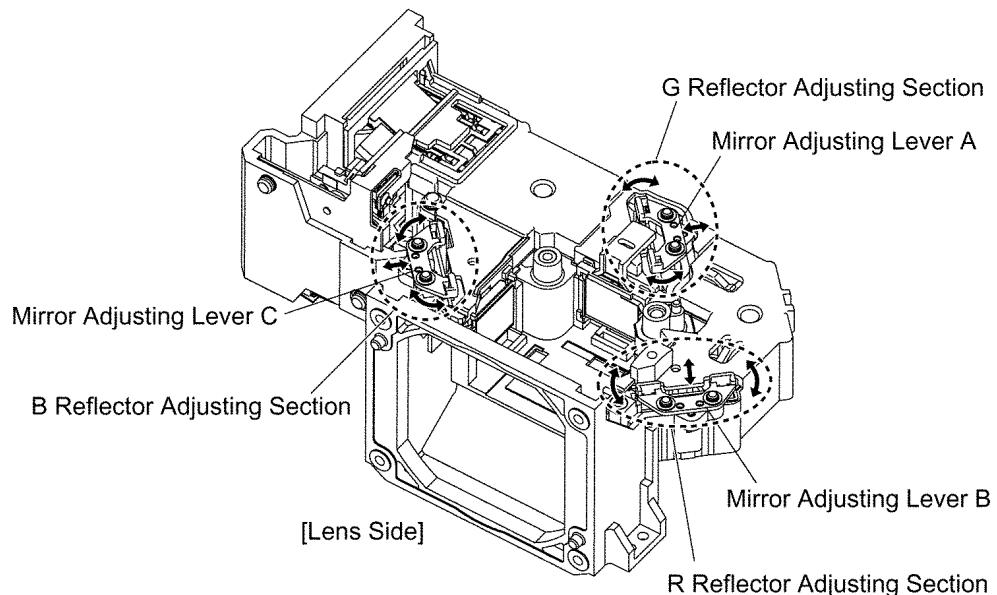
### 7.5.3. Adjustment Procedure

#### 7.5.3.1. Outline

When the lighting area is off from the adjustment and color unevenness appears, adjust the lighting area into correct position.

| Symptom            | Measure                |
|--------------------|------------------------|
| Magenta unevenness | G Reflector Adjustment |
| Cyan unevenness    | R Reflector Adjustment |
| Yellow unevenness  | B Reflector Adjustment |

- Shifting the mirror adjusting lever horizontally, adjust color unevenness on the screen upper/lower sides.
- Twisting the mirror adjusting lever, adjust color unevenness on the screen right/left sides.



[Above figure is shown only the analysis block for explanation.]

#### 7.5.3.2. G Reflector Adjustment

1. Turn on the power and display 100 % white pattern on the screen.
2. Loosen the 2 screws fixing the mirror adjusting lever A just until the lever can be shifted.
3. Adjust the mirror adjusting lever A position to minimize color unevenness on the screen by shifting the lever in arrow directions.

4. Tighten the 2 screws.

#### 7.5.3.3. R Reflector Adjustment

1. Turn on the power and display 100 % white pattern on the screen.
2. Loosen the 2 screws fixing the mirror adjusting lever B just until the lever can be shifted.
3. Adjust the mirror adjusting lever B position to minimize color unevenness on the screen by shifting the lever in arrow directions.

unevenness on the screen by shifting the lever in arrow directions.

4. Tighten the 2 screws.

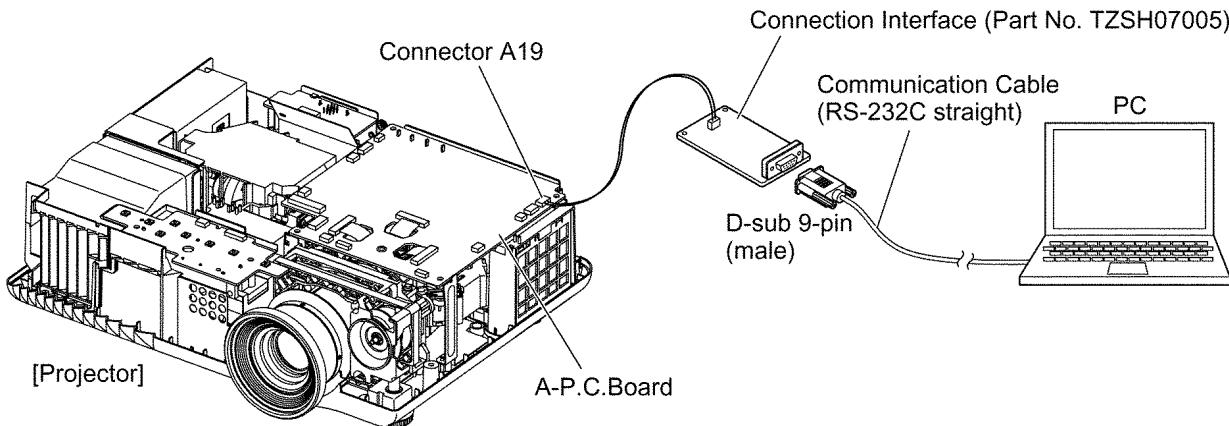
#### 7.5.3.4. B Reflector Adjustment

1. Turn on the power and display 100 % white pattern on the screen.

### 7.6. Software for Adjustment

#### 7.6.1. Outline

- This projector needs computer-aided adjustments.
- After the software adjustments, this projector must be turned off and on again to memorize the settings.
- Connect the connection interface and communication cable between the projector and a PC as shown below.
- Updating the software will change the version number.



#### 7.6.2. Operating Procedure

1. Run the software program by the keyboard entry.

##### Note:

- Use the software program as below.

Adjustment Tool [AE700]

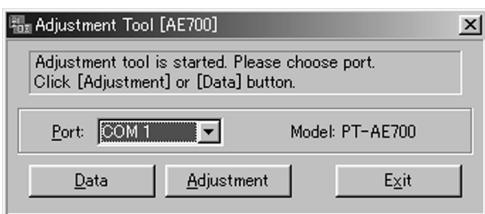
2. The first menu is Port selection menu.

3. Adjust the projector by selecting the necessary item from the menu in each stage.

##### Exit:

Exits this application.

#### 7.6.3. Port Name and Projector Selection Menu



Select the port name of PC which connects with the projector, then click [Data] or [Adjustment] button.

#### 7.6.3.1. Explanation of Buttons

##### Data:

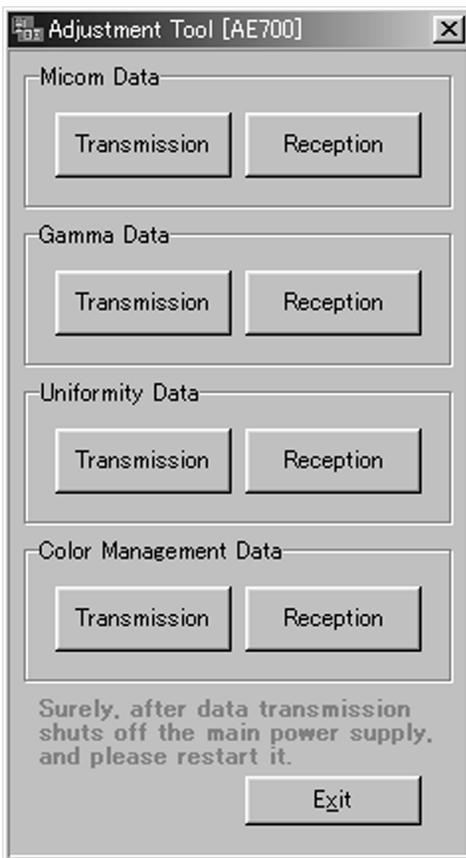
Displays the data transmission/reception menu.

##### Adjustment:

Displays the adjustment menu.

2. Loosen the 2 screws fixing the mirror adjusting lever C just until the lever can be shifted.
3. Adjust the mirror adjusting lever C position to minimize color unevenness on the screen by shifting the lever in arrow directions.
4. Tighten the 2 screws.

## 7.6.4. Data Transmission/Reception Menu



### 7.6.4.1. Explanation of Buttons

#### Micom Data Transmission:

Reads the microcomputer data from the file and transmits it to the projector.

#### Micom Data Reception:

Receives the microcomputer data from the projector and writes it in the file.

#### Gamma Data Transmission:

Reads the gamma data from the file and transmits it to the projector.

#### Gamma Data Reception:

Receives the gamma data from the projector and writes it in the file.

#### Uniformity Data Transmission:

Reads the color unevenness correction data from the file and transmits it to the projector.

#### Uniformity Data Reception:

Receives the color unevenness correction data from the projector and writes it in the file.

#### Color Management Data Transmission:

Reads the color management data from the file and transmits it to the projector.

#### Color Management Data Reception:

Receives the color management data from the projector and writes it in the file.

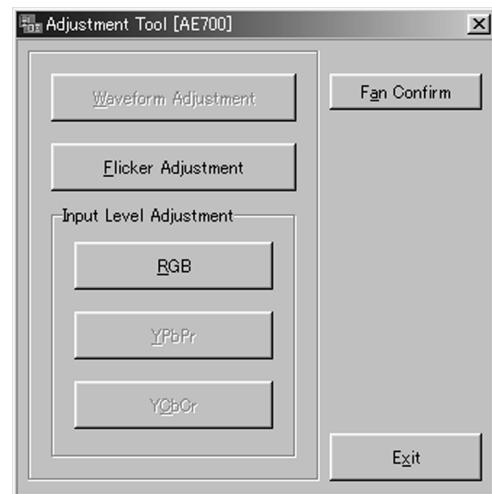
#### Exit:

Exits this application.

## 7.6.4.2. Receiving and sending of the data

Click a target button and specify a file name.

## 7.6.5. Adjustment Menu



### 7.6.5.1. Explanation of Buttons

#### Flicker Adjustment:

Displays Flicker Adjustment menu.

#### Input Level Adjustment [RGB]:

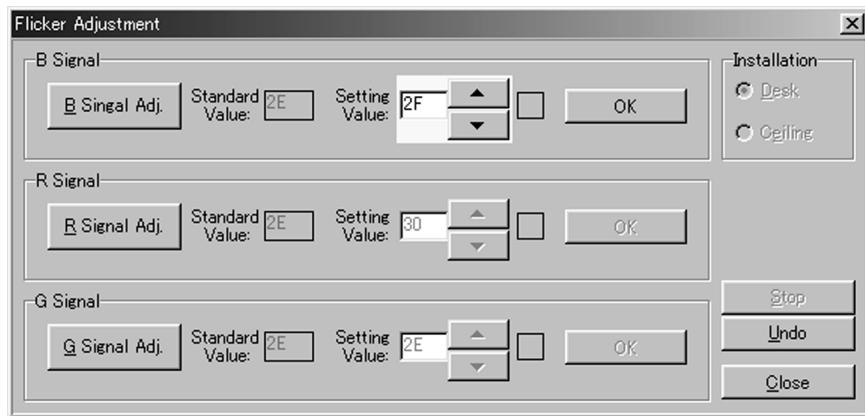
Displays Input Level Adjustment (RGB) menu.

#### Exit:

Exits this application.

## 7.7. Flicker Adjustment

### 7.7.1. Adjustment Menu



### 7.7.2. Explanation of Buttons

#### Desk:

Sets the installation mode to the desk setting and receive the current data. (This button is usually set for its inactive mode.)

#### Ceiling:

Sets the installation mode to the ceiling setting and receive the current data. (This button is usually set for its inactive mode.)

#### B Signal Adj.:

Sets the test signal mode to the B-signal and allows the "▲", "▼" and "OK" buttons of the B-signal to become active.

#### R Signal Adj.:

Sets the test signal mode to the R-signal and allows the "▲", "▼" and "OK" buttons of the R-signal to become active.

#### G Signal Adj.:

Sets the test signal mode to the G-signal and allows the "▲", "▼" and "OK" buttons of the G-signal to become active.

#### ▲ or ▼

Changes the setting value and transmits its data. (The 8 and 2 keys on the keyboard have the same functions.) If releasing the mouse or key after pressing it continuously, the data is transmitted once. The variable setting value is enclosed in a box and using the TAB or SPACE key allows the move of the box.

#### OK:

Determines the setting value and stores its data in the EEPROM. (The ENTER key on the keyboard has the same function.) The item having two or more kinds of setting values is processed two or more items. Clicking this button or pressing ENTER key changes the color of the text "OK" to cyan (light blue). If changing the setting value using the "▲" or "▼" button or the 8 or 2 key, its color returns to black.

#### Stop:

Discontinues the communication. (This button is usually set

for its inactive mode.)

#### Undo:

Returns the setting value to its original state and transmits its data. The color of the text "OK" returns to black.

#### Close:

Closes this menu.

### 7.7.3. Equipment to be used

PC, Software for Adjustment

### 7.7.4. Adjustment Procedure

1. Display Flicker Adjustment menu.
2. Click "B Signal Adj.," and the blue flicker adjustment pattern will be displayed.
3. Minimize the flicker while observing the projected pattern.
4. Click "R Signal Adj.," and the red flicker adjustment pattern will be displayed.
5. Minimize the flicker while observing the projected pattern.
6. Click "G Signal Adj.," and the green flicker adjustment pattern will be displayed.
7. Minimize the flicker while observing the projected pattern.

## 7.8. Input Level Adjustment (RGB)

### 7.8.1. Adjustment Menu



### 7.8.2. Explanation of Buttons

#### OK:

Executes automatic sub contrast and sub brightness adjustments, then closes this dialog.

**Cancel:**

Cancels this menu.

**7.8.3. Equipment to be used**

PC, RGB Signal Generator, Software for Adjustment

**7.8.4. Adjustment Procedure**

1. Display Input Level Adjustment (RGB) menu.
2. Input a window pattern signal to PC IN (RGB) connector.

**Note:**

- Use approx. 15 % window pattern as follows.  
Black background (screen width) : White window width = 2 : 1  
Black background (screen height) : White window height = 3 : 1

3. Click the OK button.

## 8 Troubleshooting

The letters in the left of the inspection items indicate the P.C.Boards or Modules related to their respective descriptions.

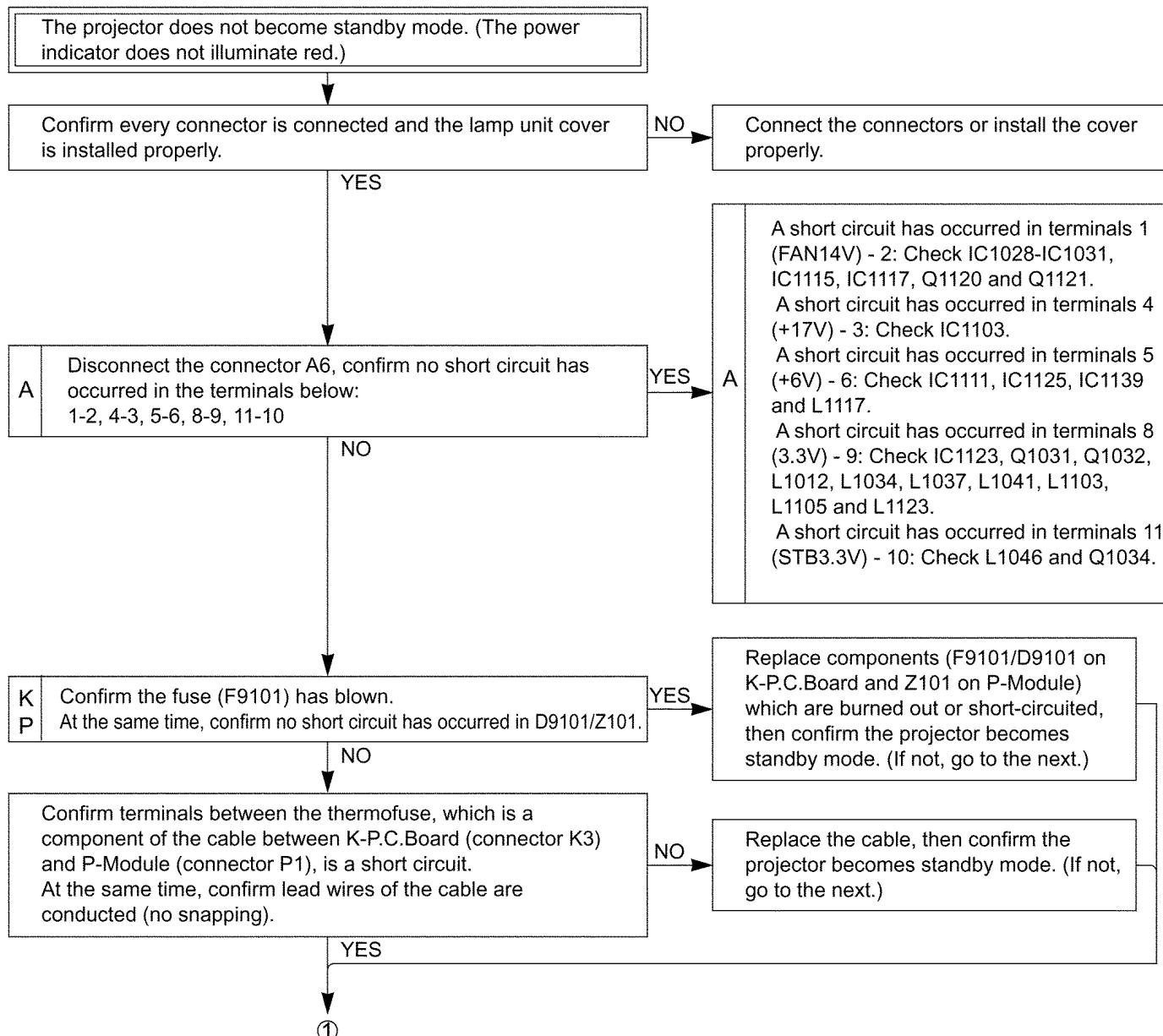
Note: A

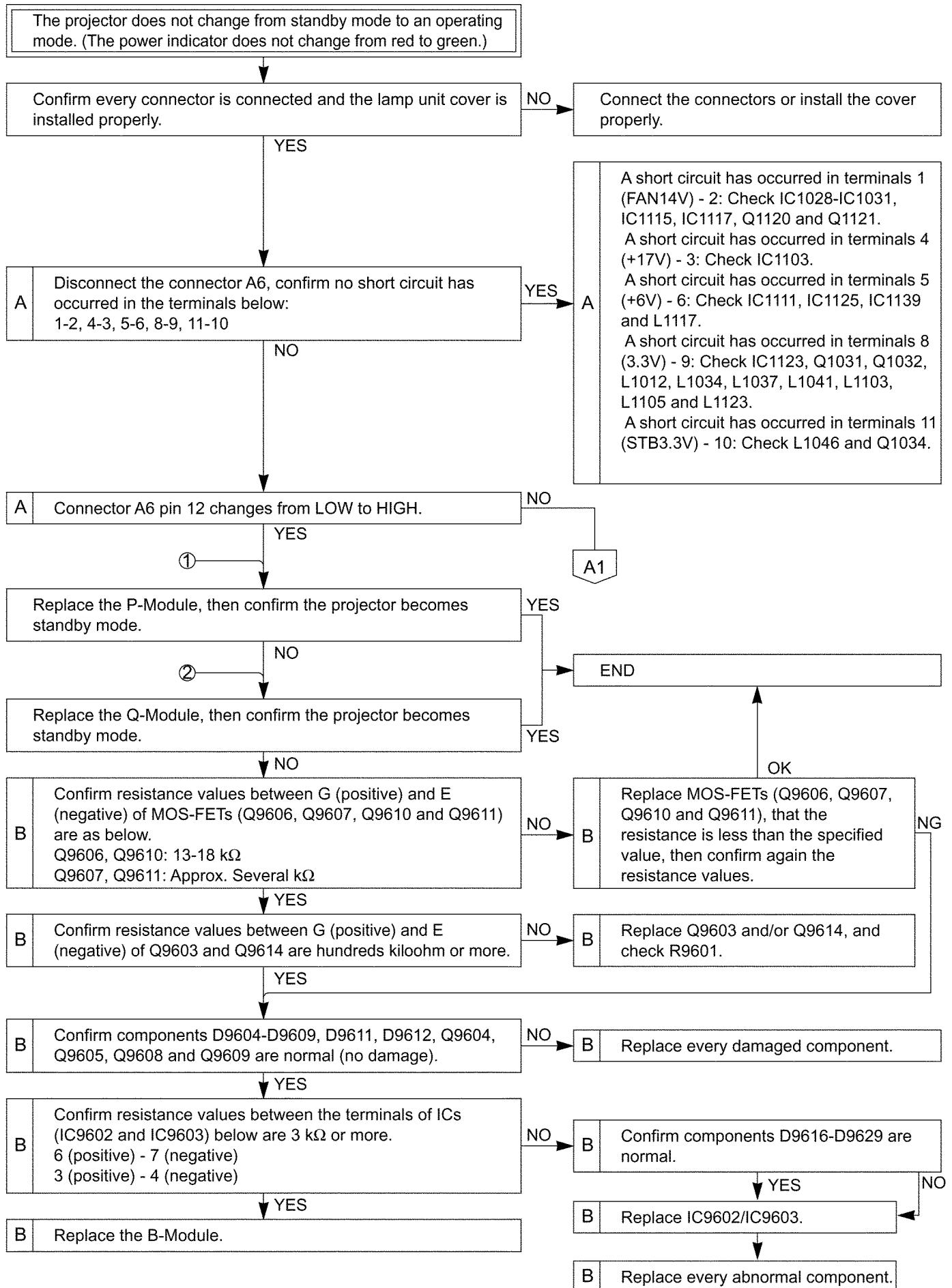
The letter of the alphabet indicates the P.C.Board or Module name.

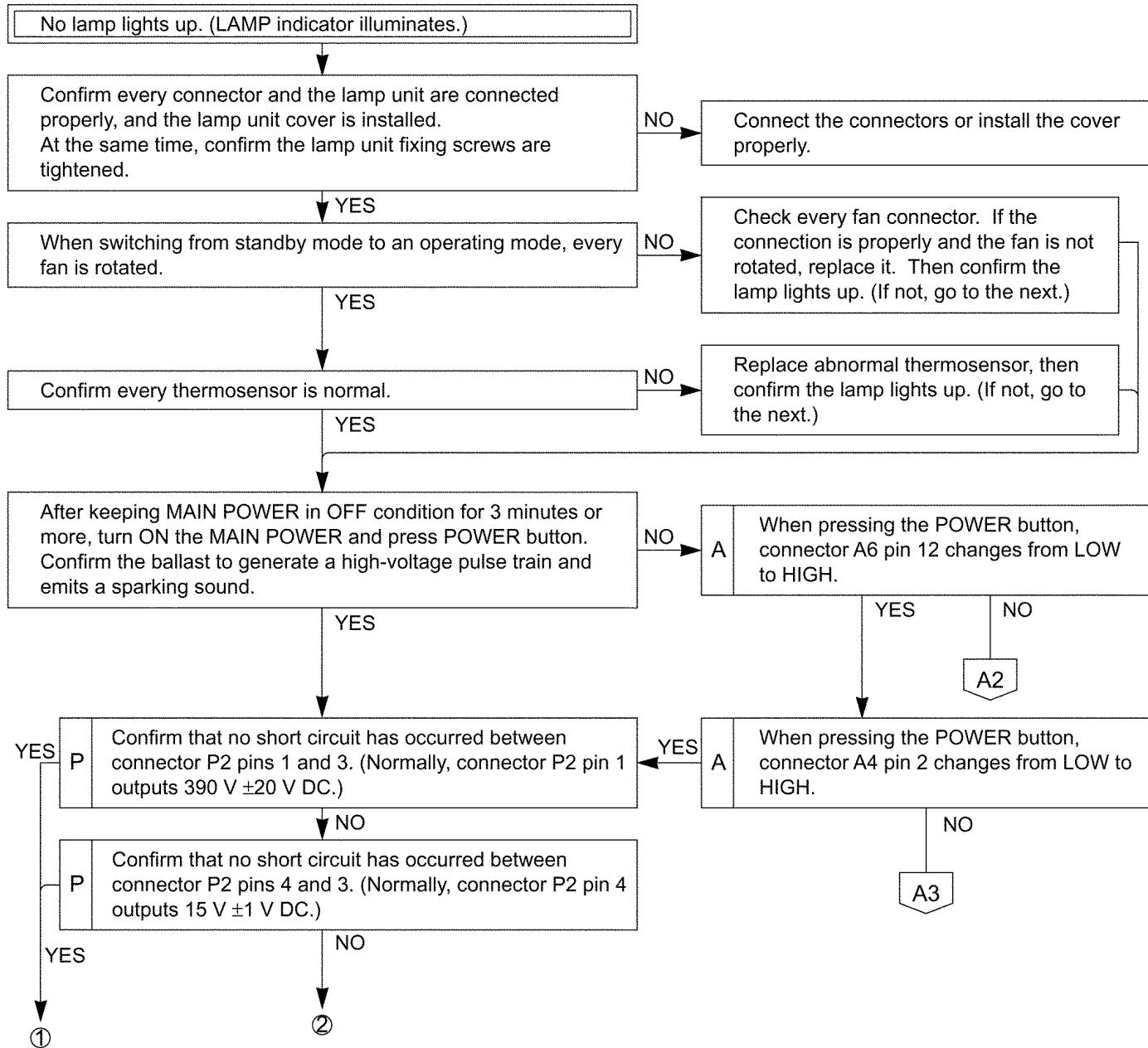
(Example) A: A-P.C.Board, B: B-Module

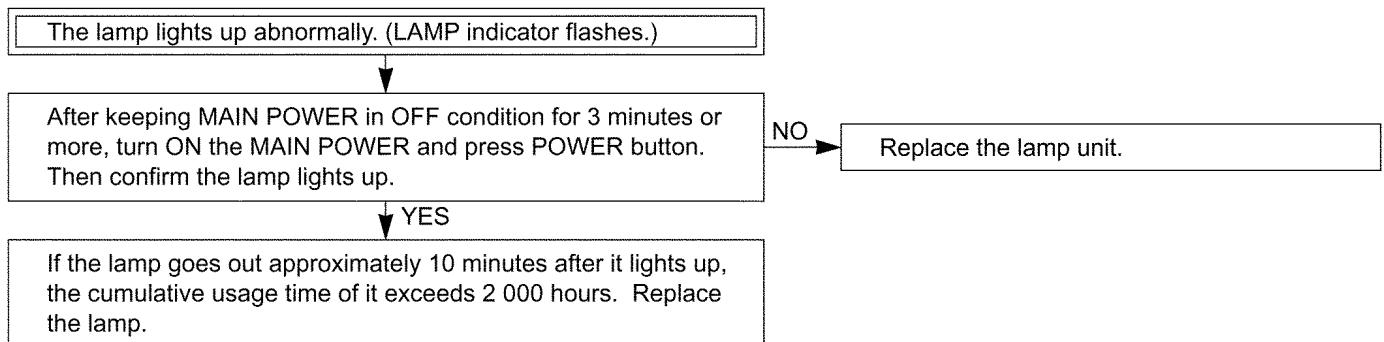
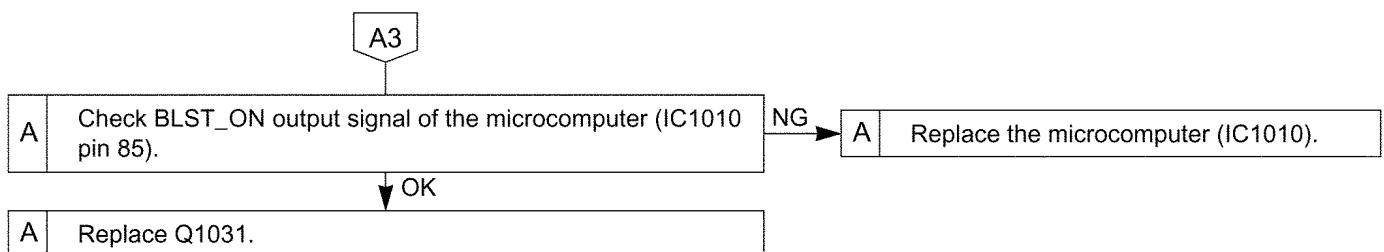
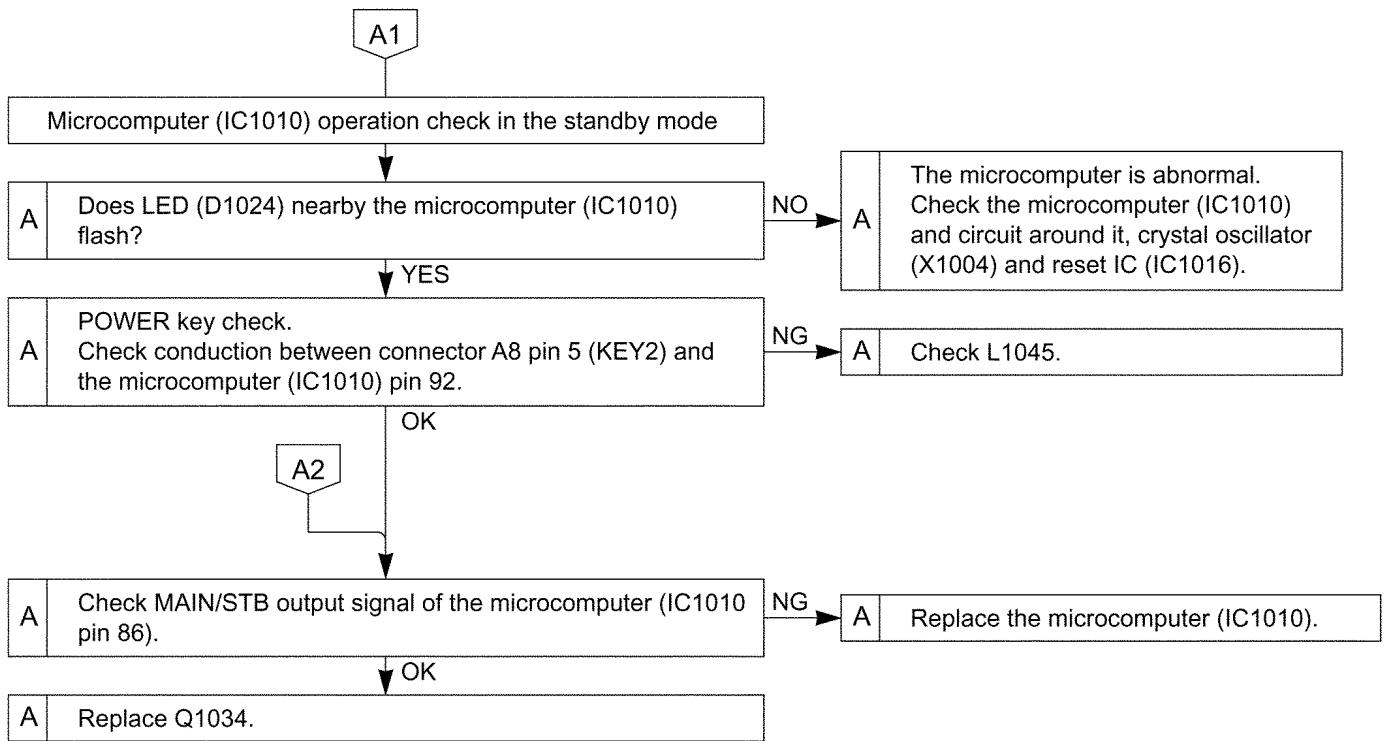
If replacing A-P.C.Board (assembly), read the ROM data from the old P.C.Board and write it in the new one according to the section 7.6. "Software for Adjustment". At this time, if the readout from the old P.C.Board does not succeed, remove IC1011 and IC1017 from the old P.C.Board and install them on the new one.

If replacing A-P.C.Board (assembly), adjust RGB Input Level according to the chapter 7.8. "Input Level Adjustment (RGB)".

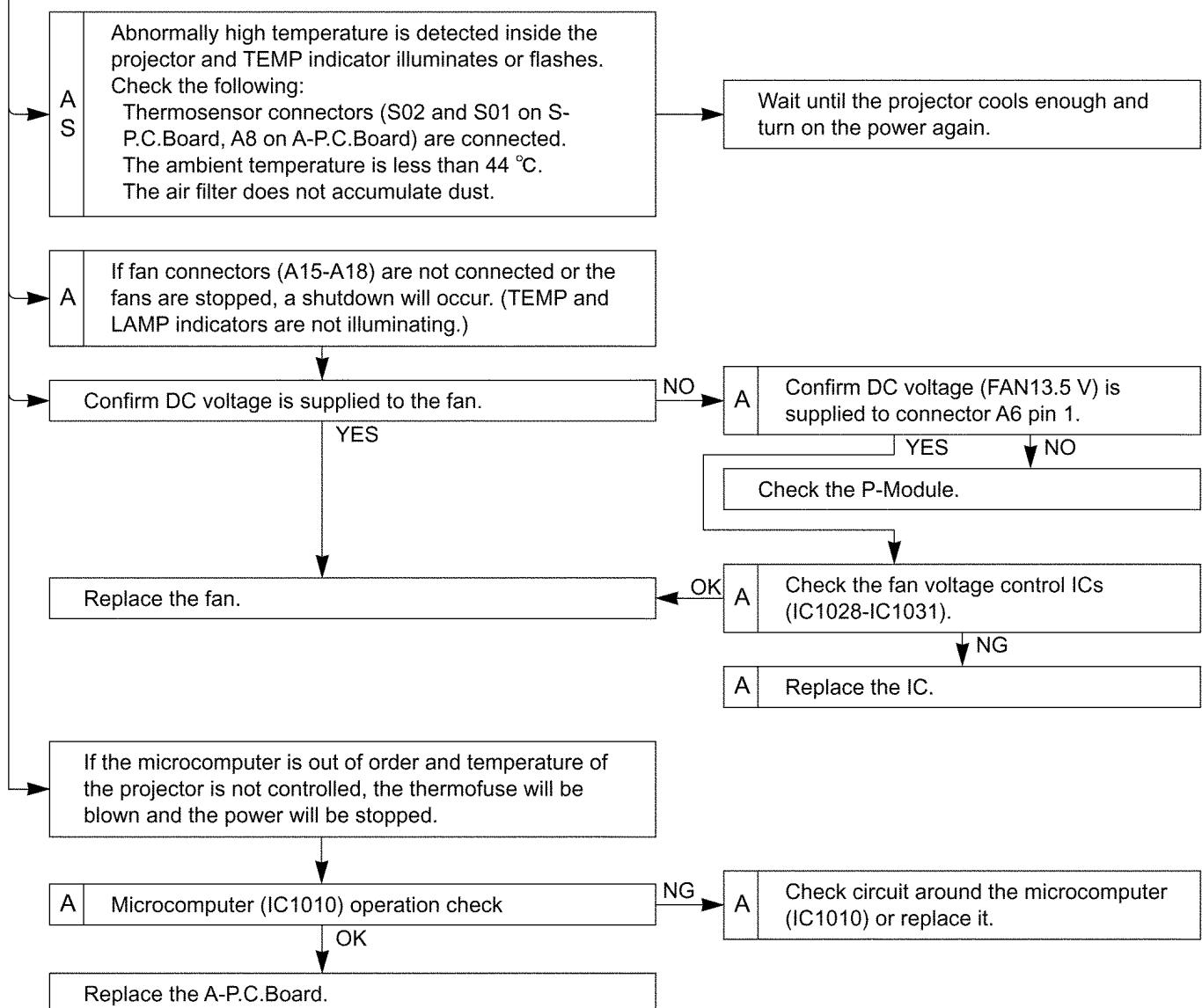


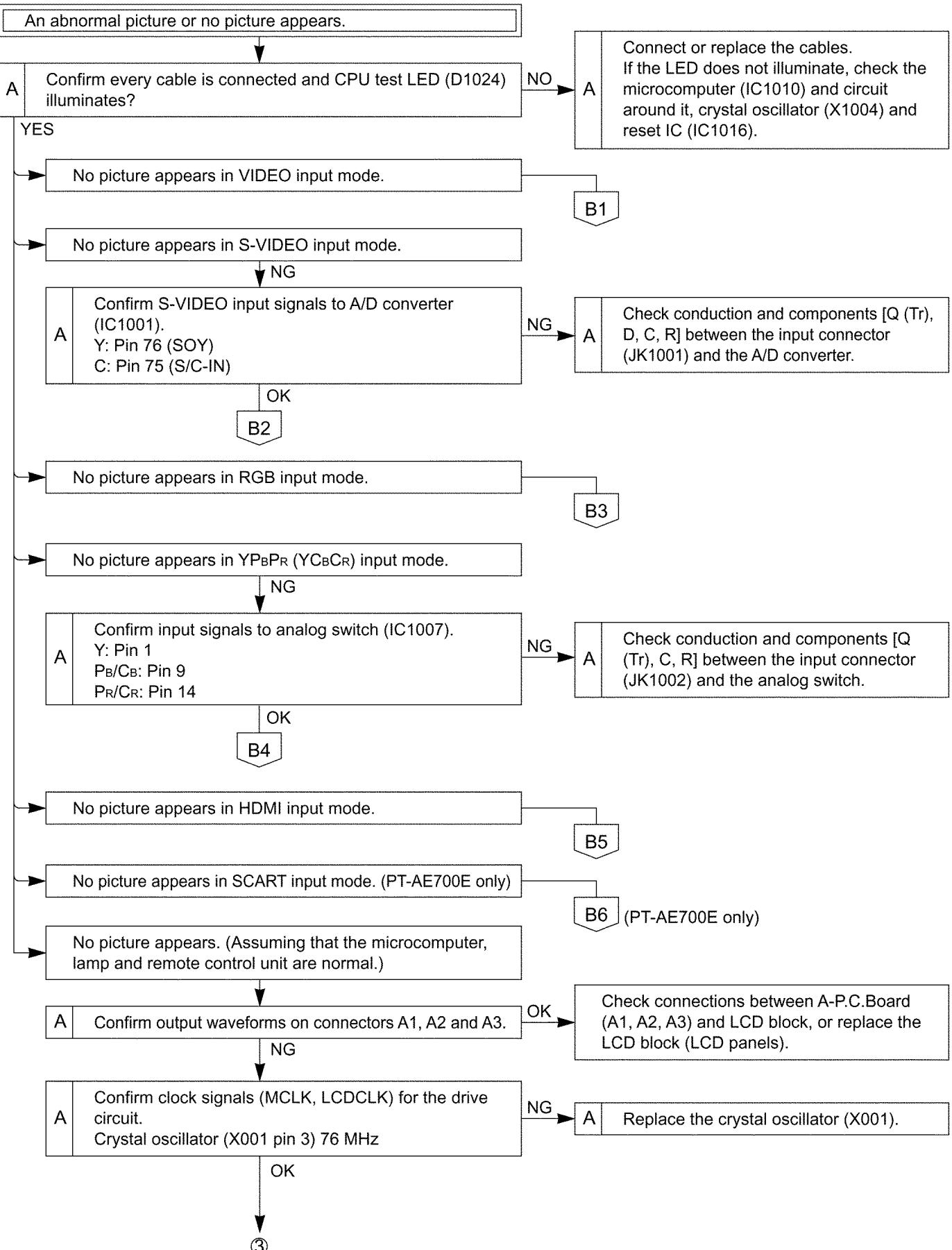


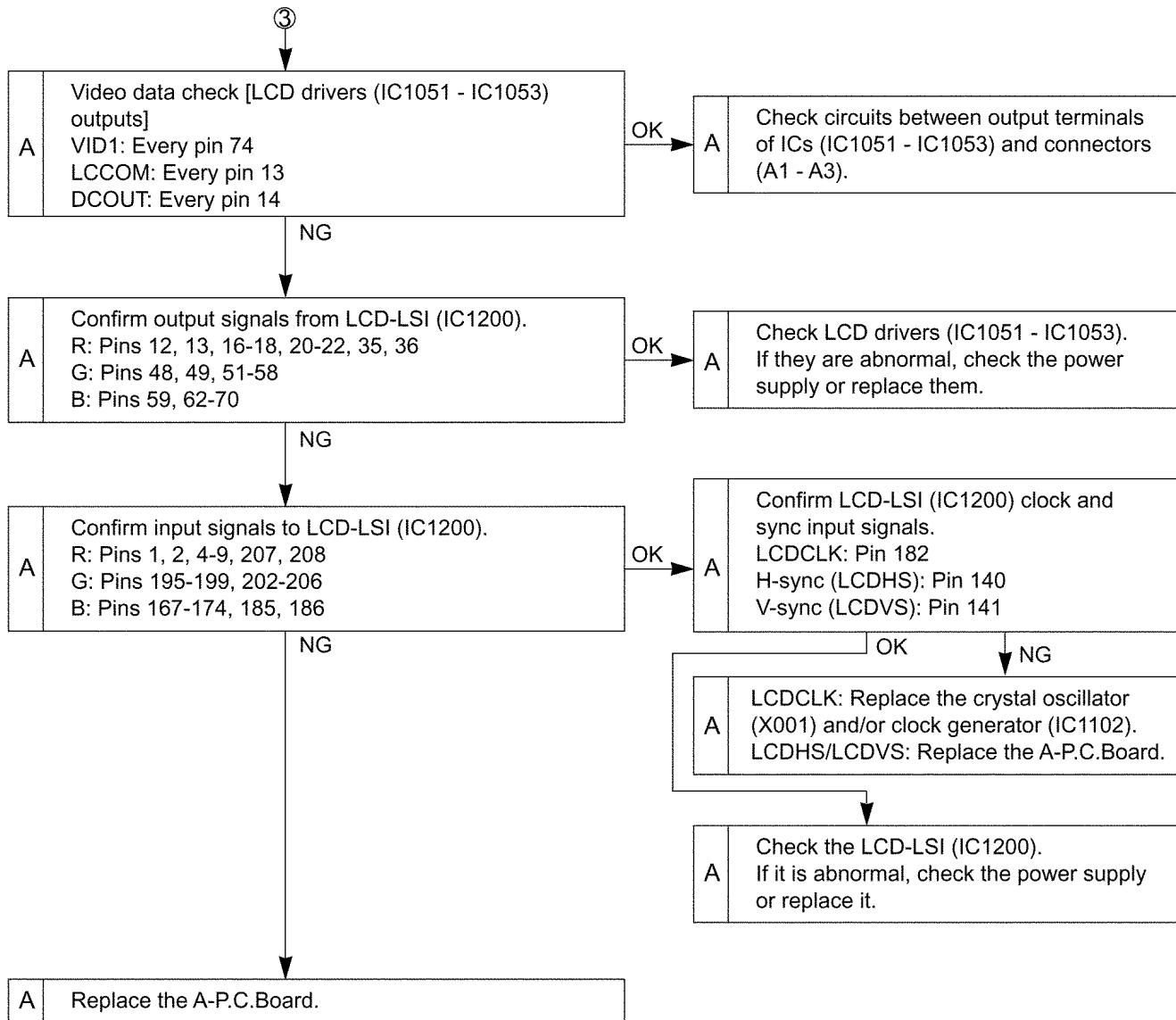


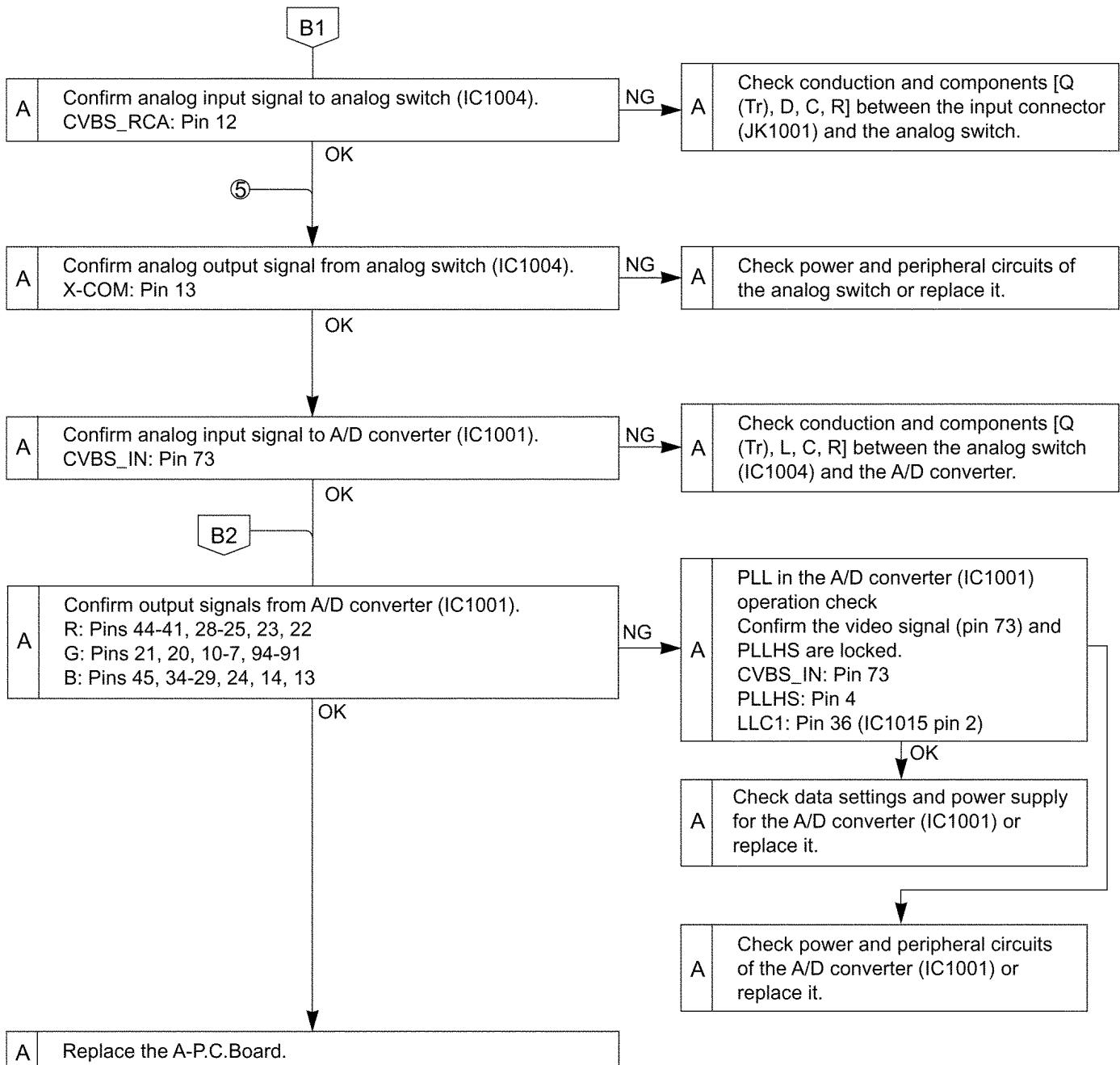


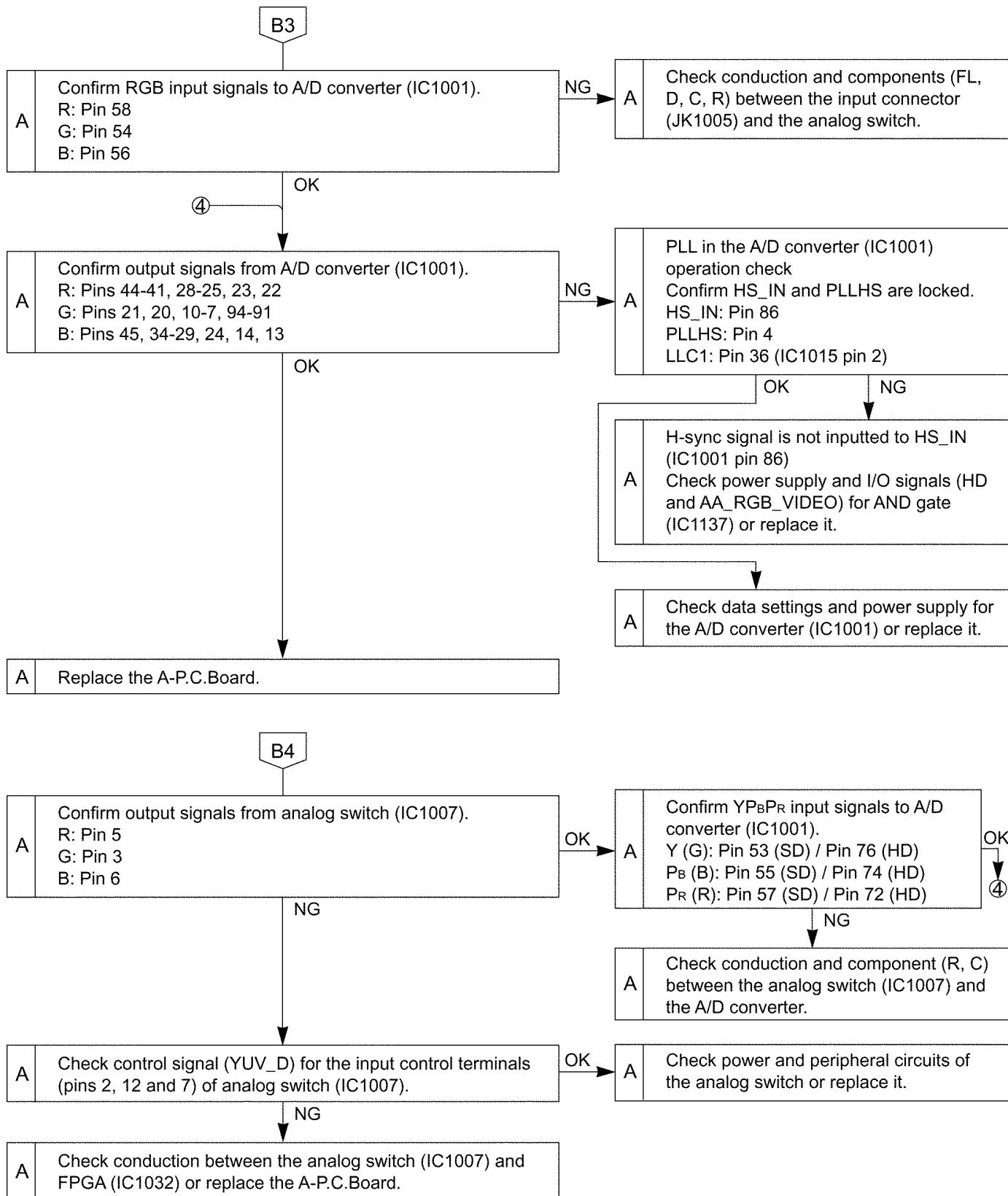
A shutdown occurs.

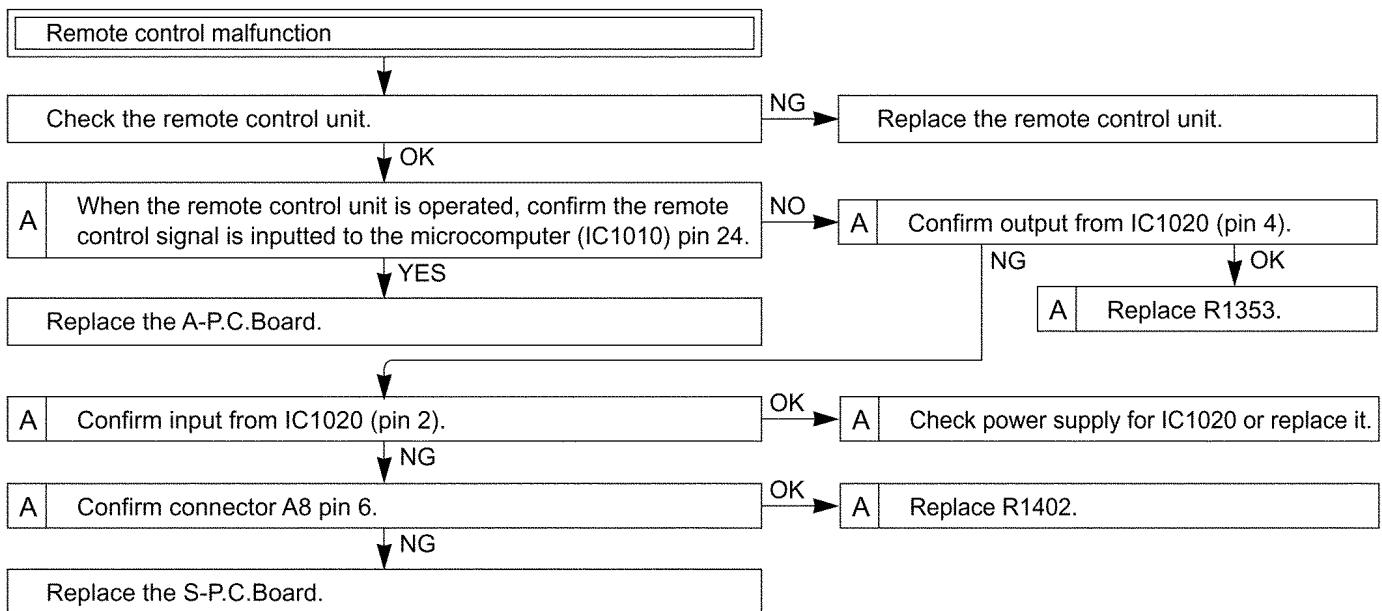
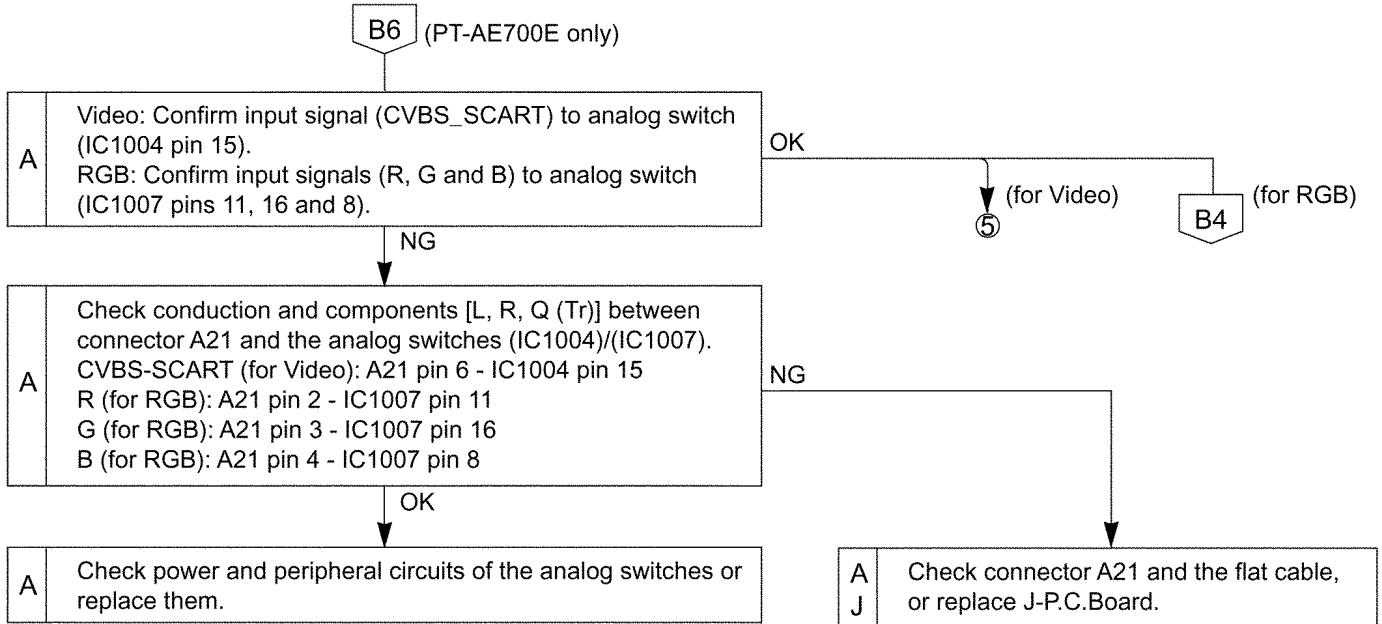
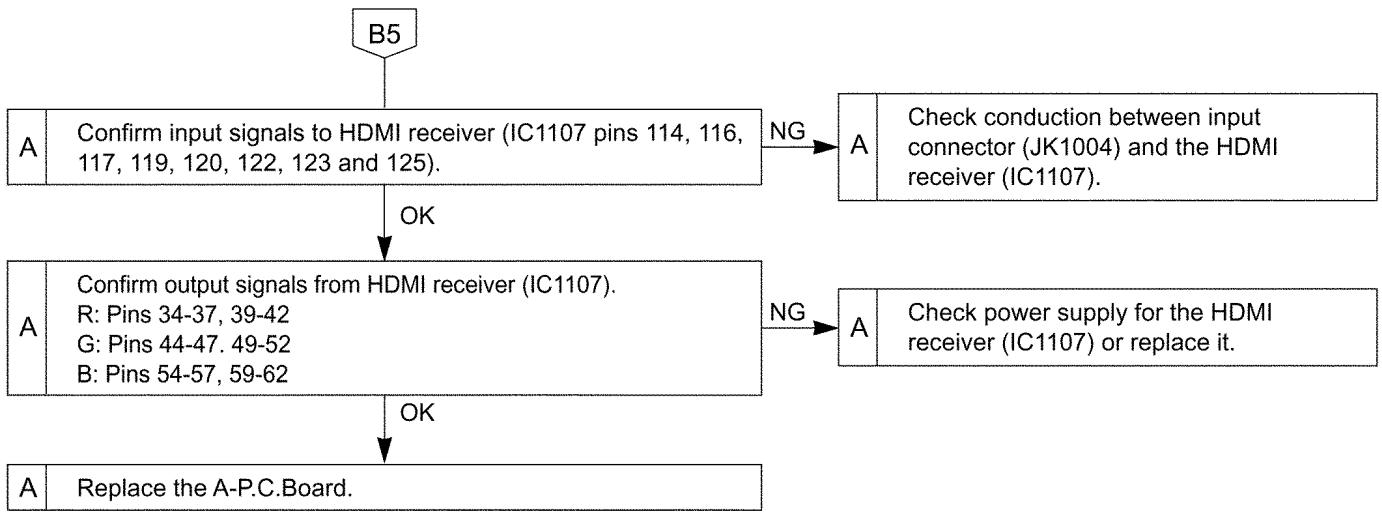








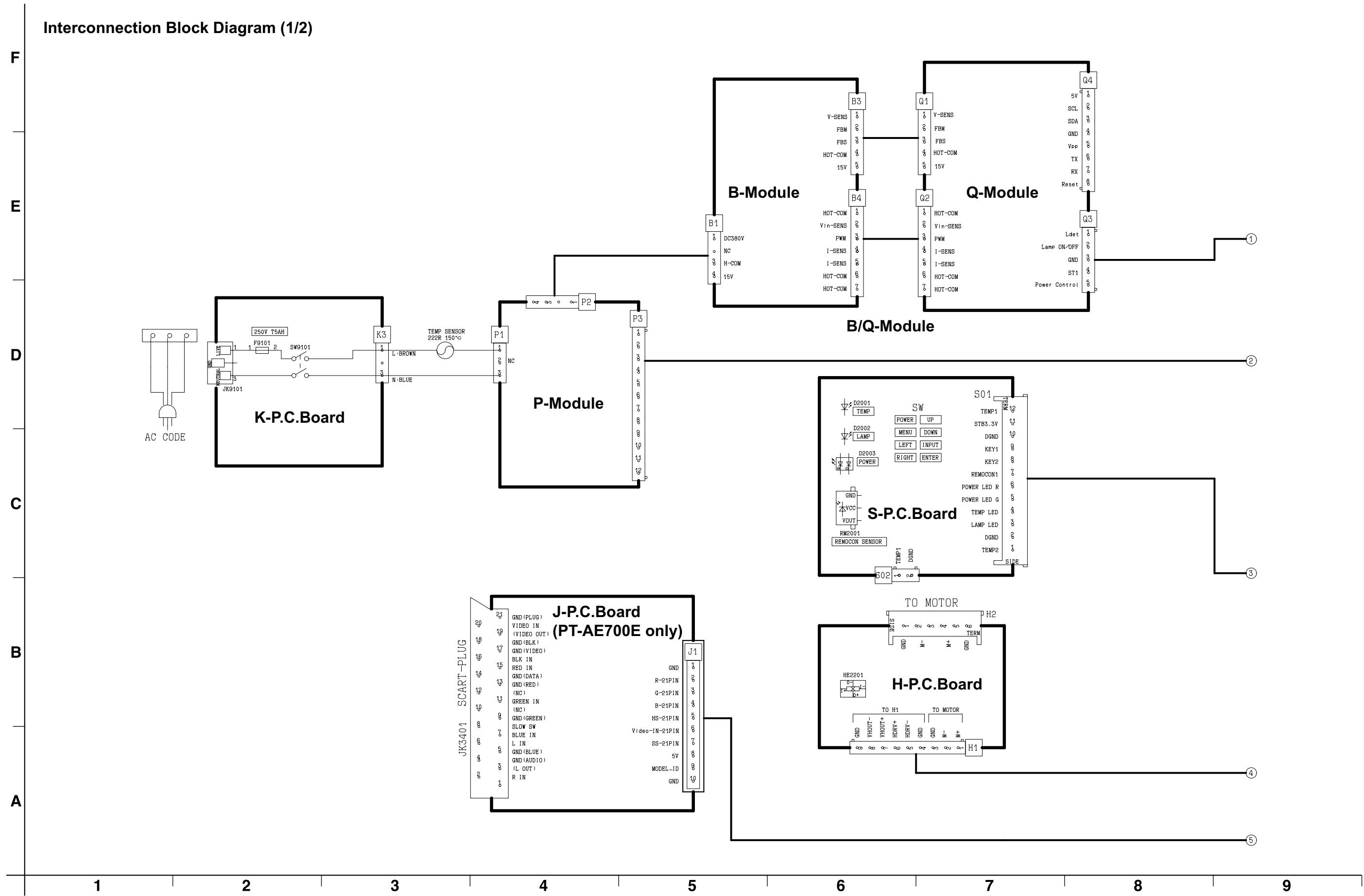






## 9 Interconnection Block Diagram

### 9.1. Interconnection Block Diagram (1/2)



## 9.2. Interconnection Block Diagram (2/2)

Interconnection Block Diagram (2/2)

F

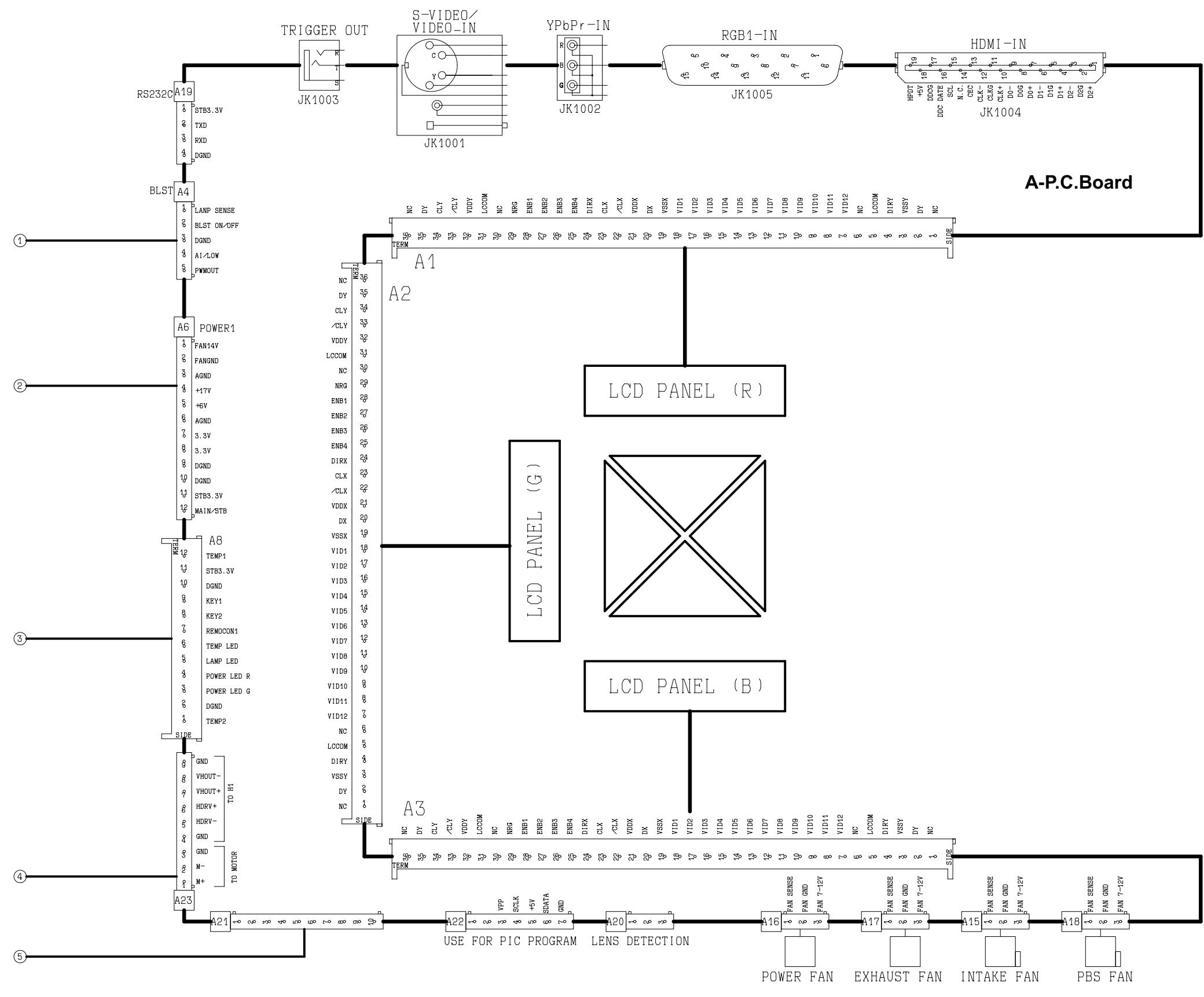
E

D

C

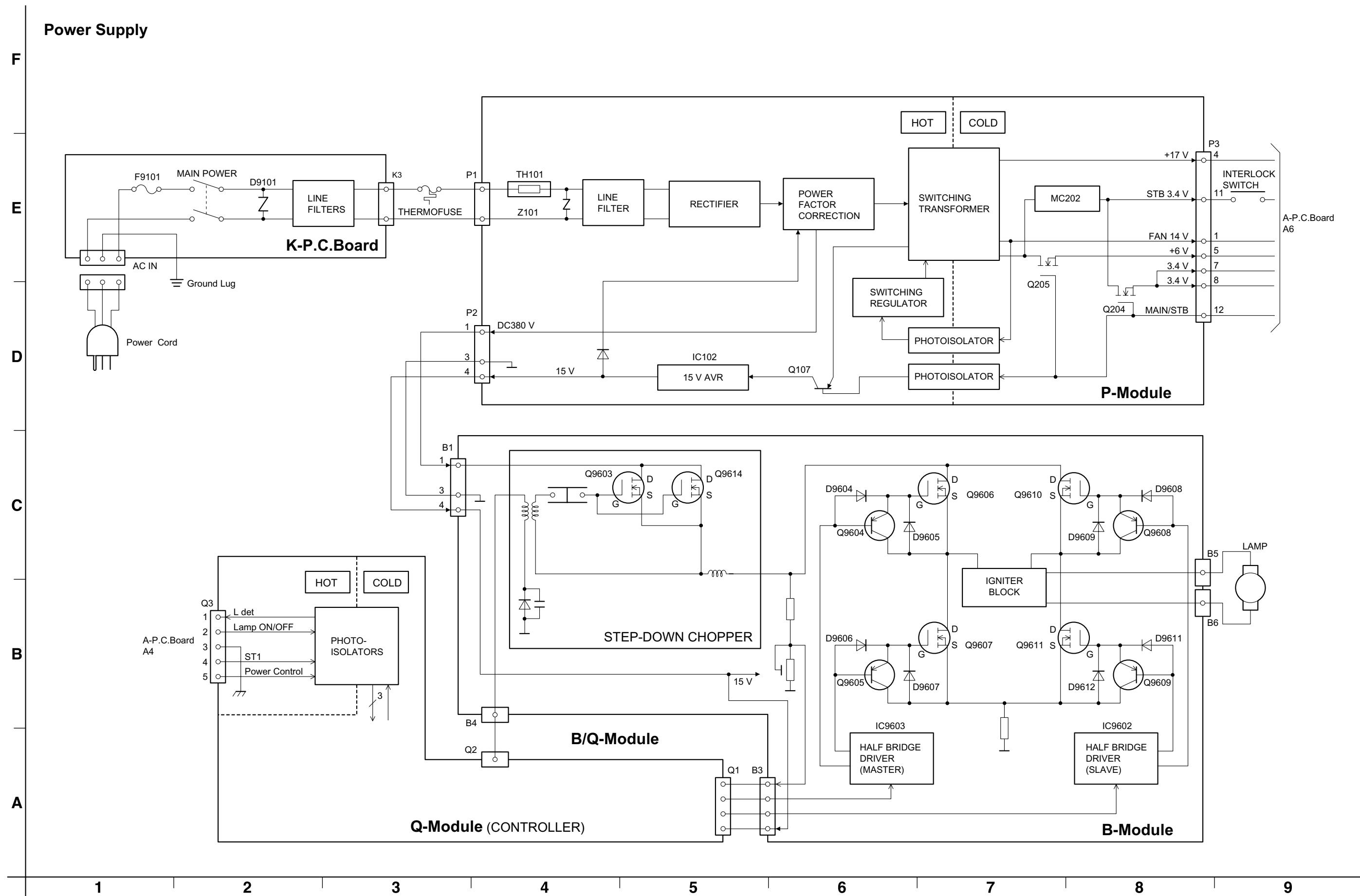
B

A



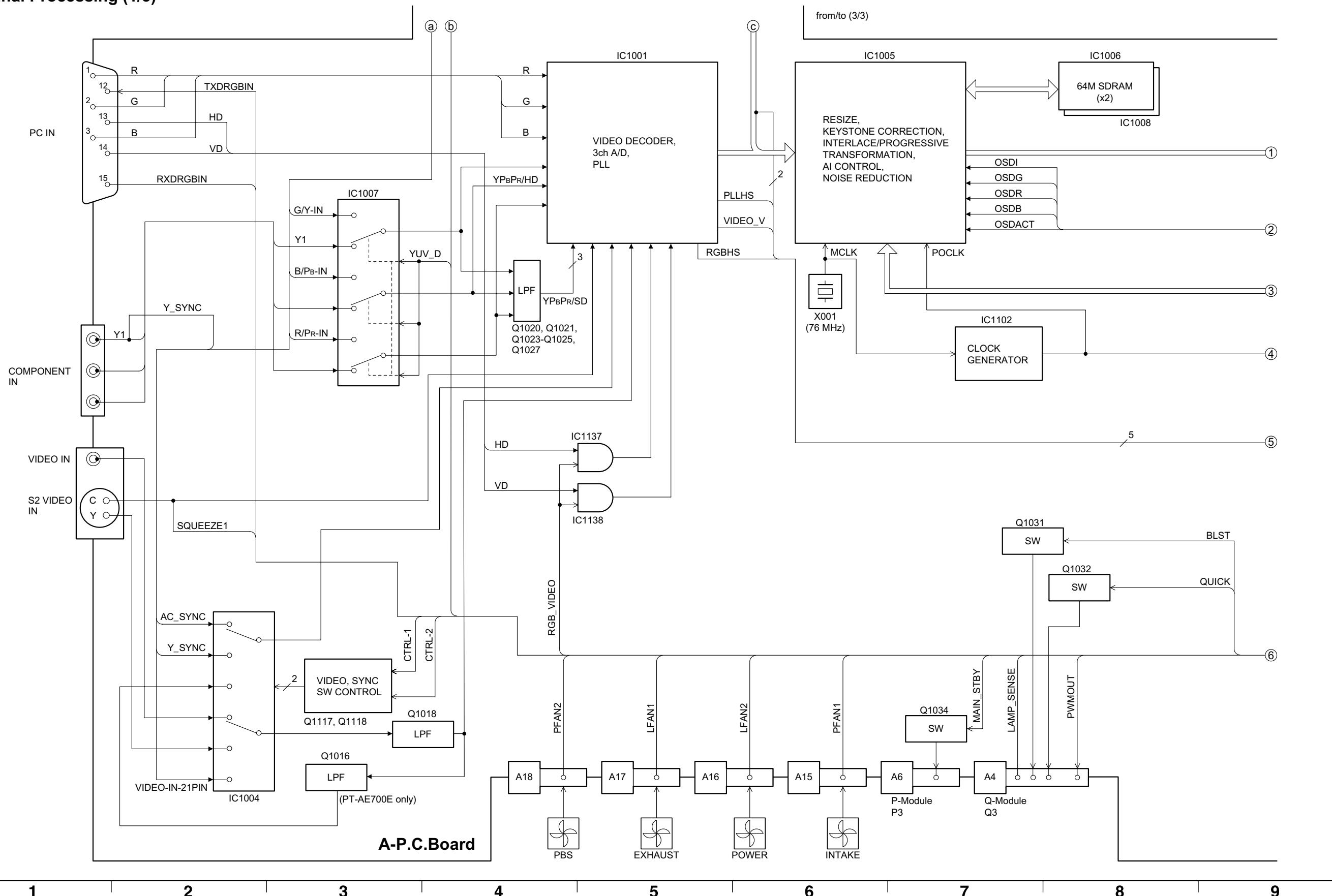
## 10 Block Diagram

## 10.1. Power Supply

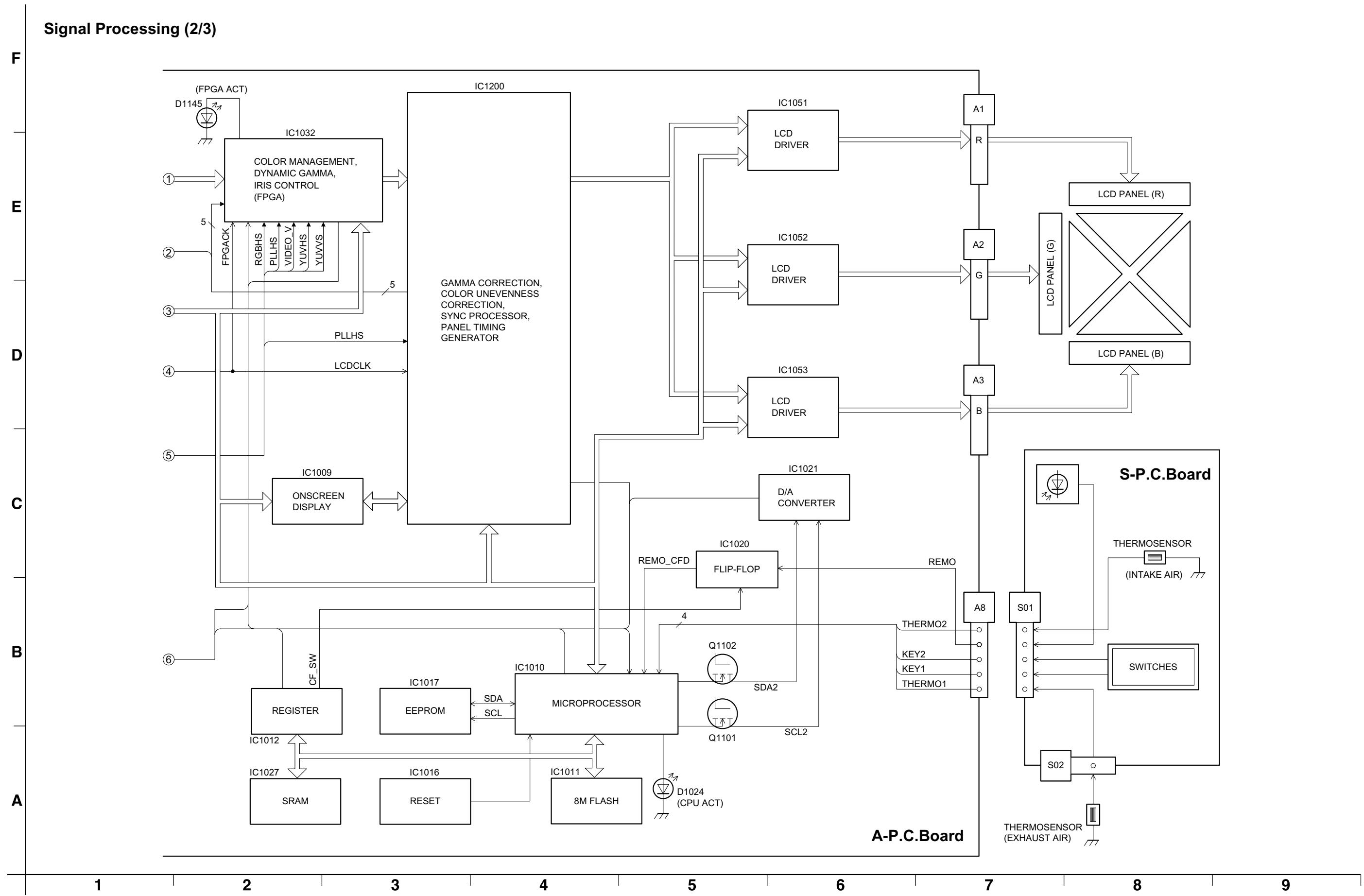


## 10.2. Signal Processing (1/3)

### Signal Processing (1/3)

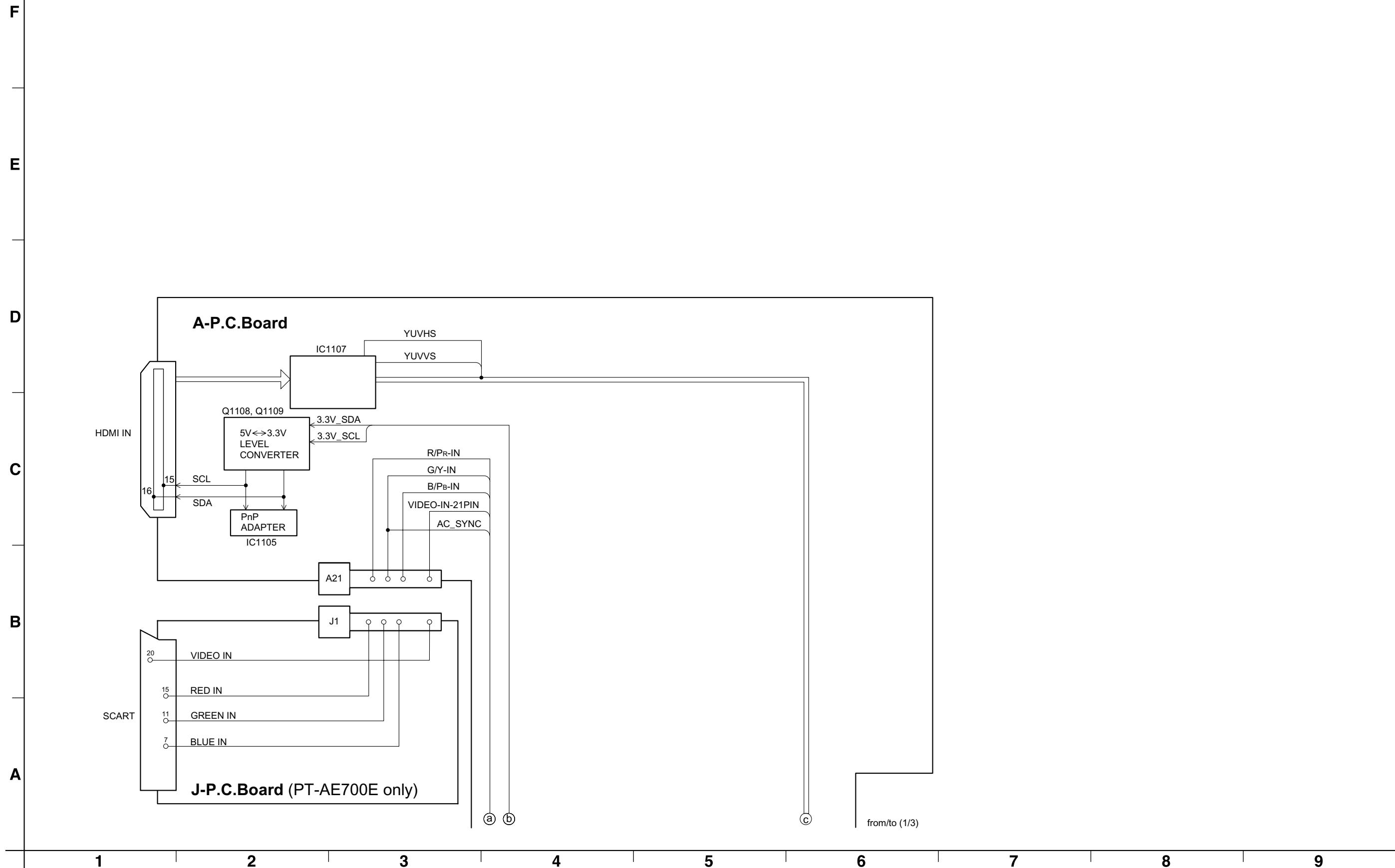


### 10.3. Signal Processing (2/3)



## 10.4. Signal Processing (3/3)

### Signal Processing (3/3)



# 11 Schematic Diagram

## Schematic Diagram for Model PT-AE700U

### IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM FIRE AND ELECTRICAL SHOCK HAZARDS.  
WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

## Schematic Diagram for Model PT-AE700E

### Important Safety Notice

Components identified by the international symbol  have special characteristics important for safety. When replacing any of these components, use only the manufacturer's specified ones.

#### Notes:

##### 1. Resistor

All the resistors are carbon 1/4W resistors, unless marked as follows: The unit of resistance is an OHM [ $\Omega$ ] (K=1 000 M=1 000 000).

 : Nonflammable  : Metal Oxide

 : Solid  : Metal Film

 : Wire Wound  : Fuse

##### 2. Capacitor

 : Temperature Compensation  : Electrolytic

 : Polyester  : Bipolar

 : Metalized Polyester  : Dipped Tantalum

 : Polypropylene  : Z-Type

##### 3. Coil

The unit of inductance is a H, unless otherwise noted.

##### 4. Test Point

 : Test Point

##### 5. Voltage Measurement

The voltage is measured by an electronic voltmeter receiving the colorbar signal when all the customer's controls are set to the standard condition.

##### 6. Color code for the links between diagrams and circuit boards

| From/To           |   | To/From           | Color code        |
|-------------------|---|-------------------|-------------------|
| Block diagram     |  | Schematic diagram | Magenta           |
| Schematic diagram |  | Schematic diagram | Green             |
| Schematic diagram |  | Circuit boards    | Yellow            |
| Schematic diagram |  | Waveforms         | Cyan (Light blue) |

##### 7. HOT and COLD indications

The power circuit board contains a circuit area using a separate power supply to isolate the ground connection. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the precautions below:

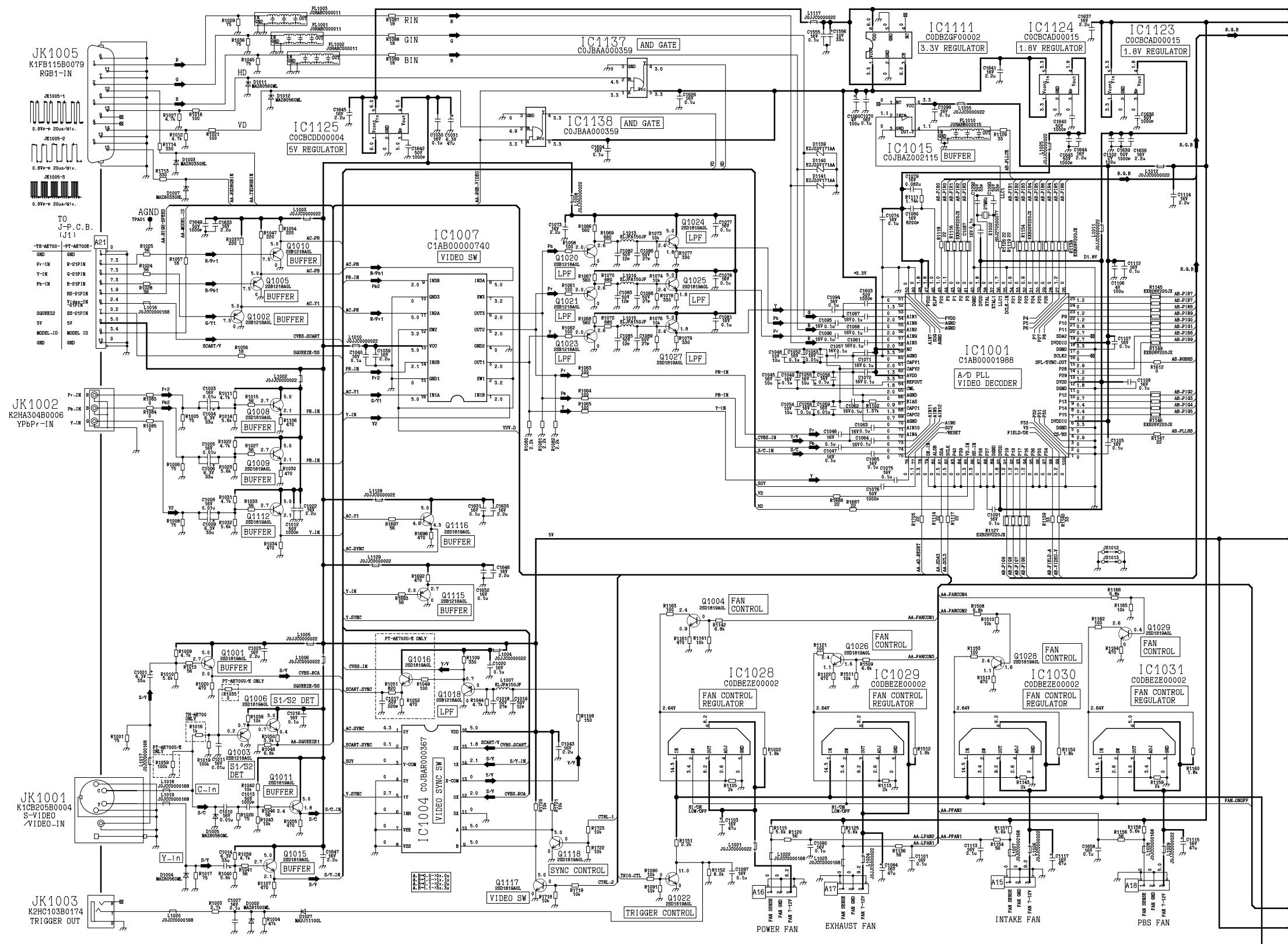
##### 8. This schematic diagram is the latest at the time of printing and the subject to change without notice.

#### Precautions:

1. NEVER touch the HOT part or the HOT and COLD parts at the same time, or you may get an electric shock.
2. NEVER short-circuit the HOT and COLD circuits, or the fuse may blow and the parts may break.
3. NEVER connect an instrument such oscilloscope to the HOT and COLD circuit simultaneously, or the fuse may blow. Connect the ground of instruments to the ground of the circuit being measured.
4. MAKE SURE to unplug the power cord from the power outlet before removing the chassis.

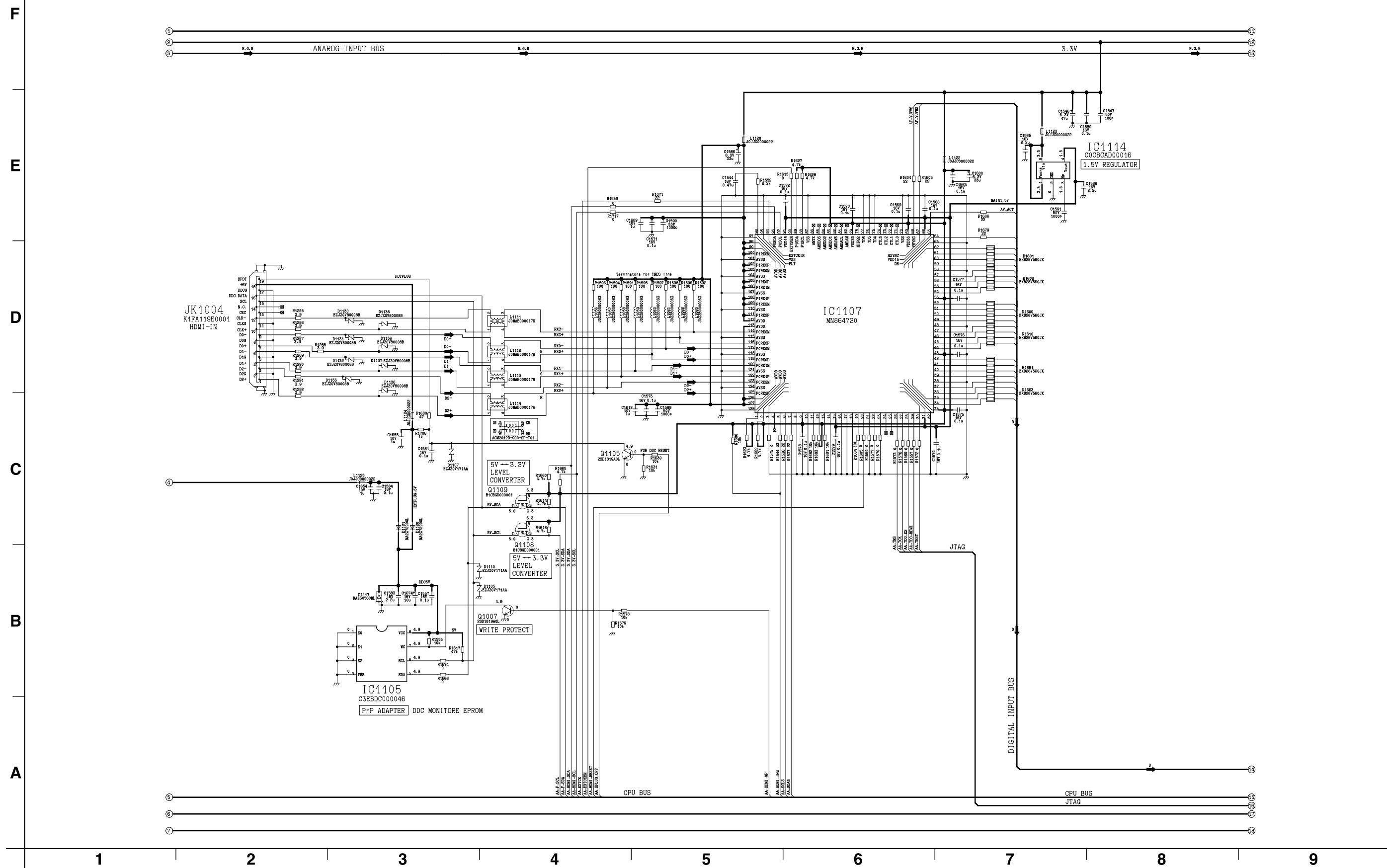
## 11.1. A-P.C.Board (1/6)

A-P.C.Board TXANP99PXNZ (1/6)



## 11.2. A-P.C. Board (2/6)

A-P.C.Board TXANP99PXNZ (2/6)



### 11.3. A-P.C.Board (3/6)

#### A-P.C.Board TXANP99PXNZ (3/6)

F

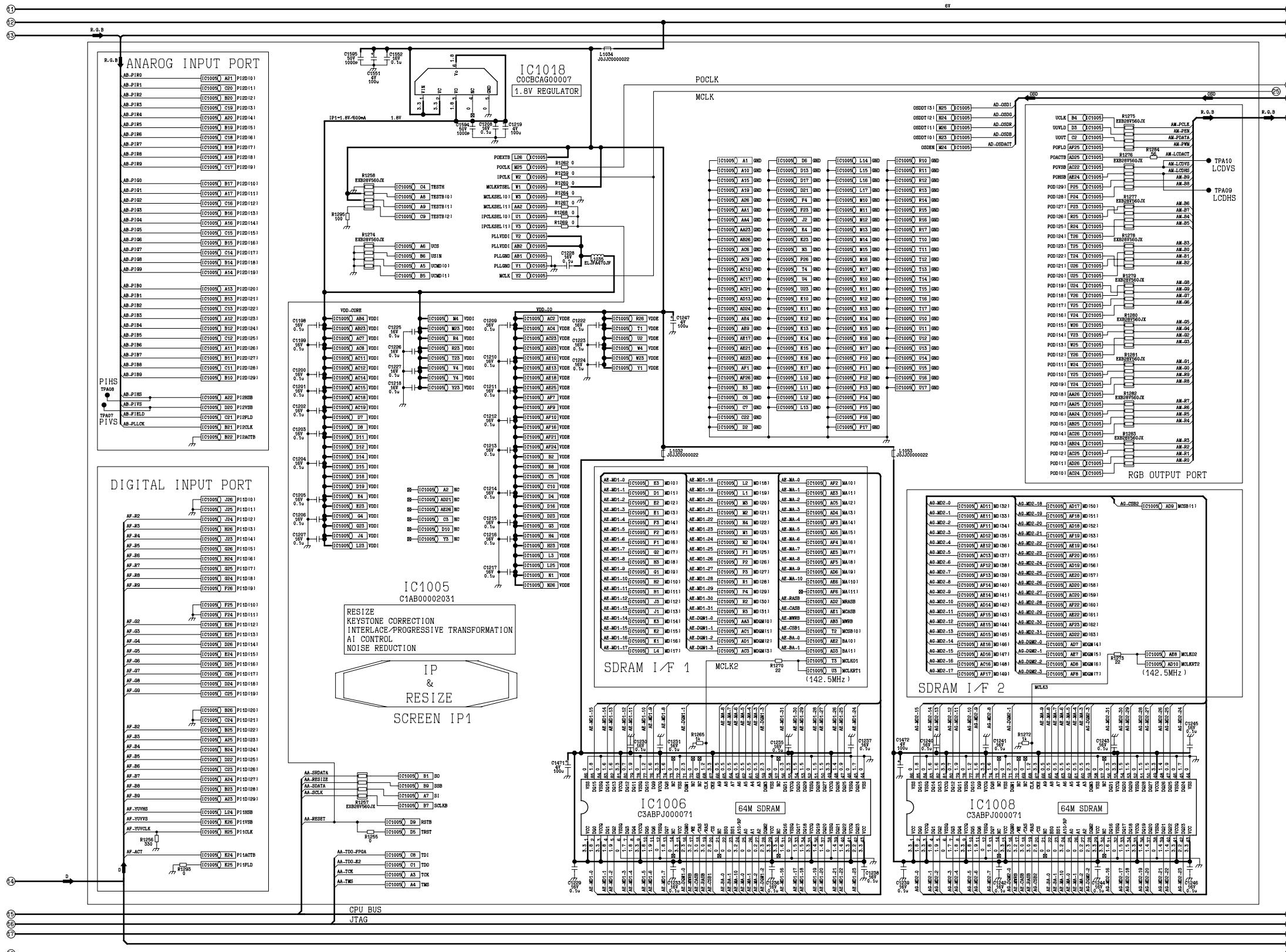
E

D

C

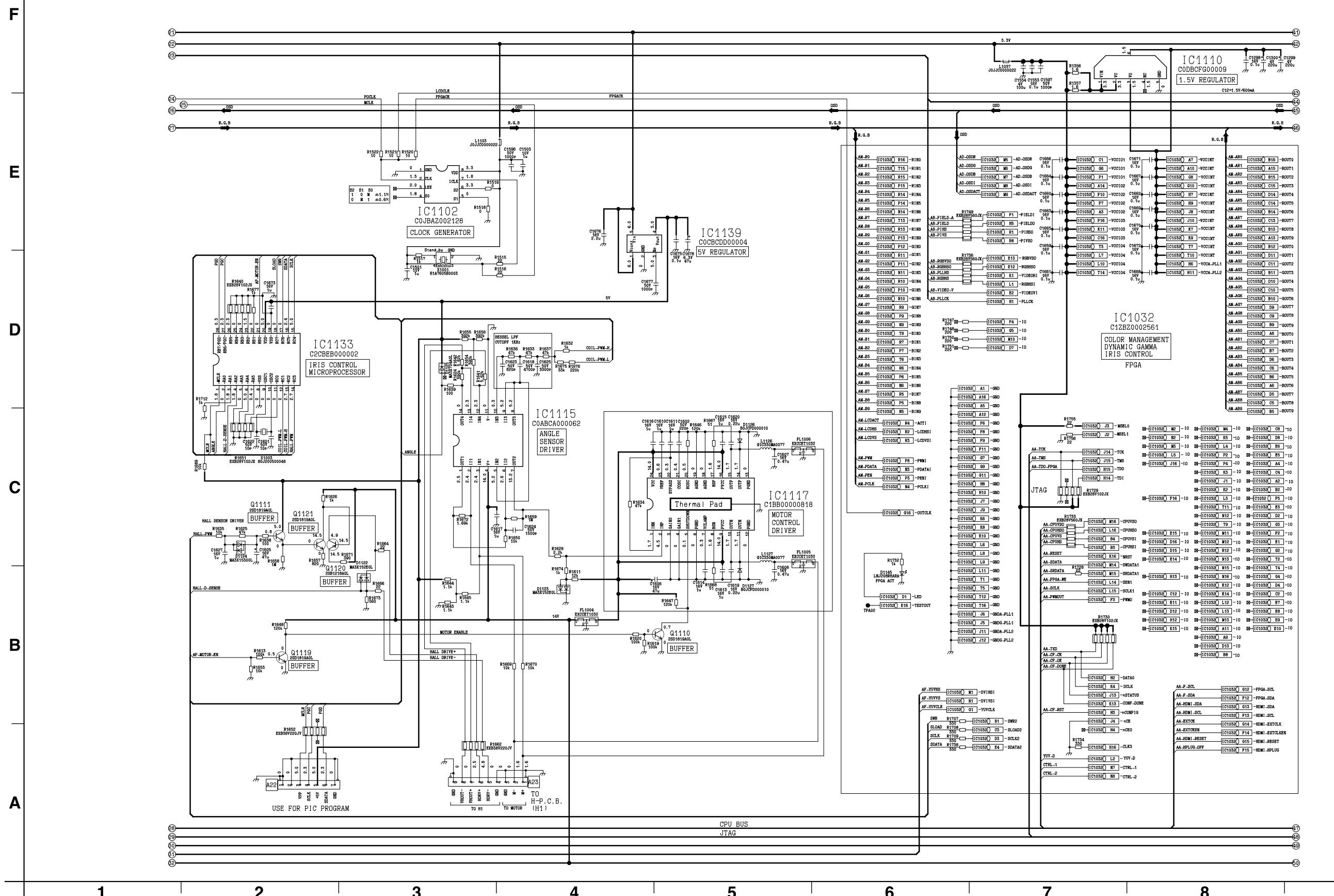
B

A



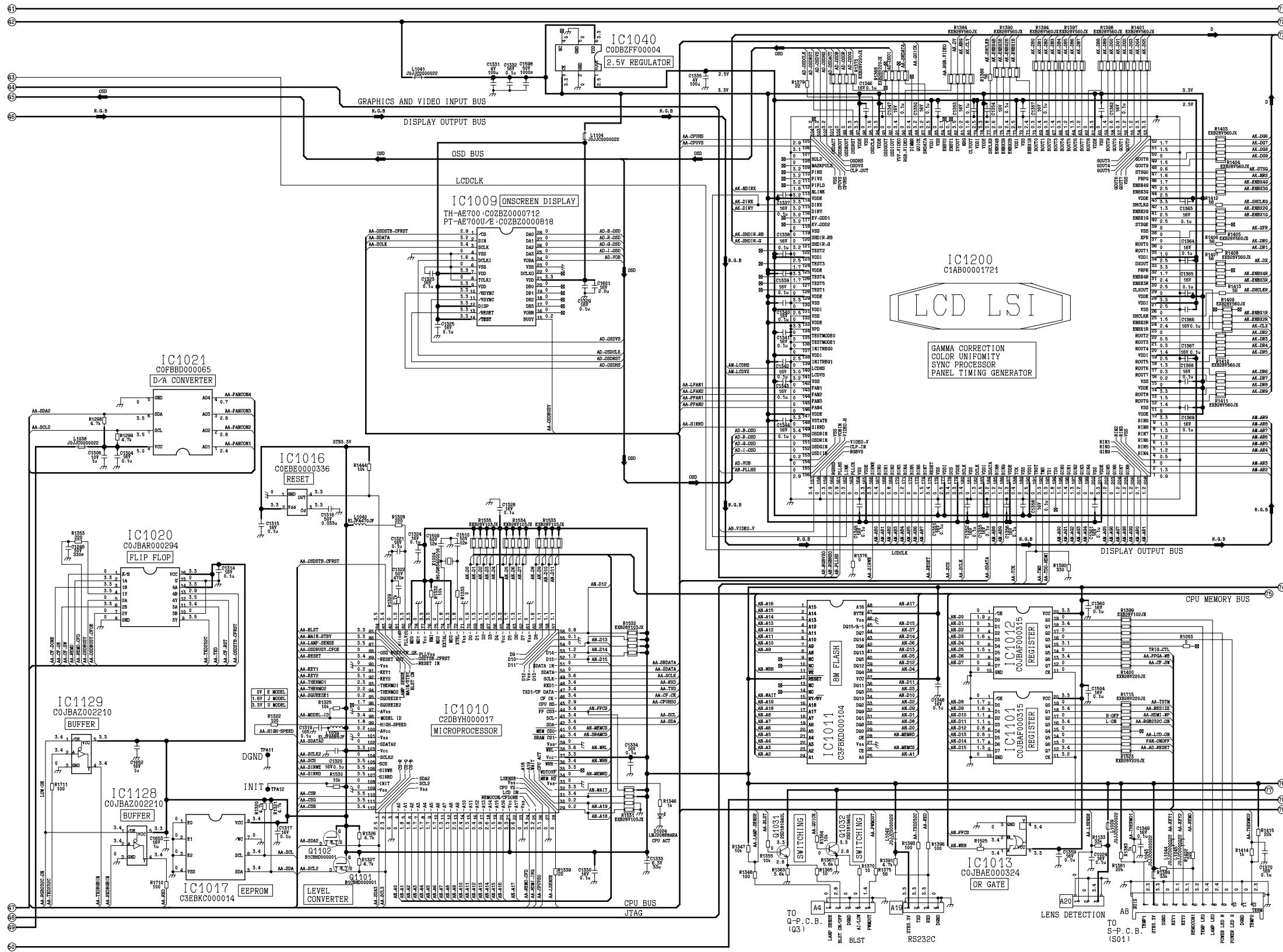
## 11.4. A-P.C. Board (4/6)

A-P.C.Board TXANP99PXNZ (4/6)



## 11.5. A-P.C.Board (5/6)

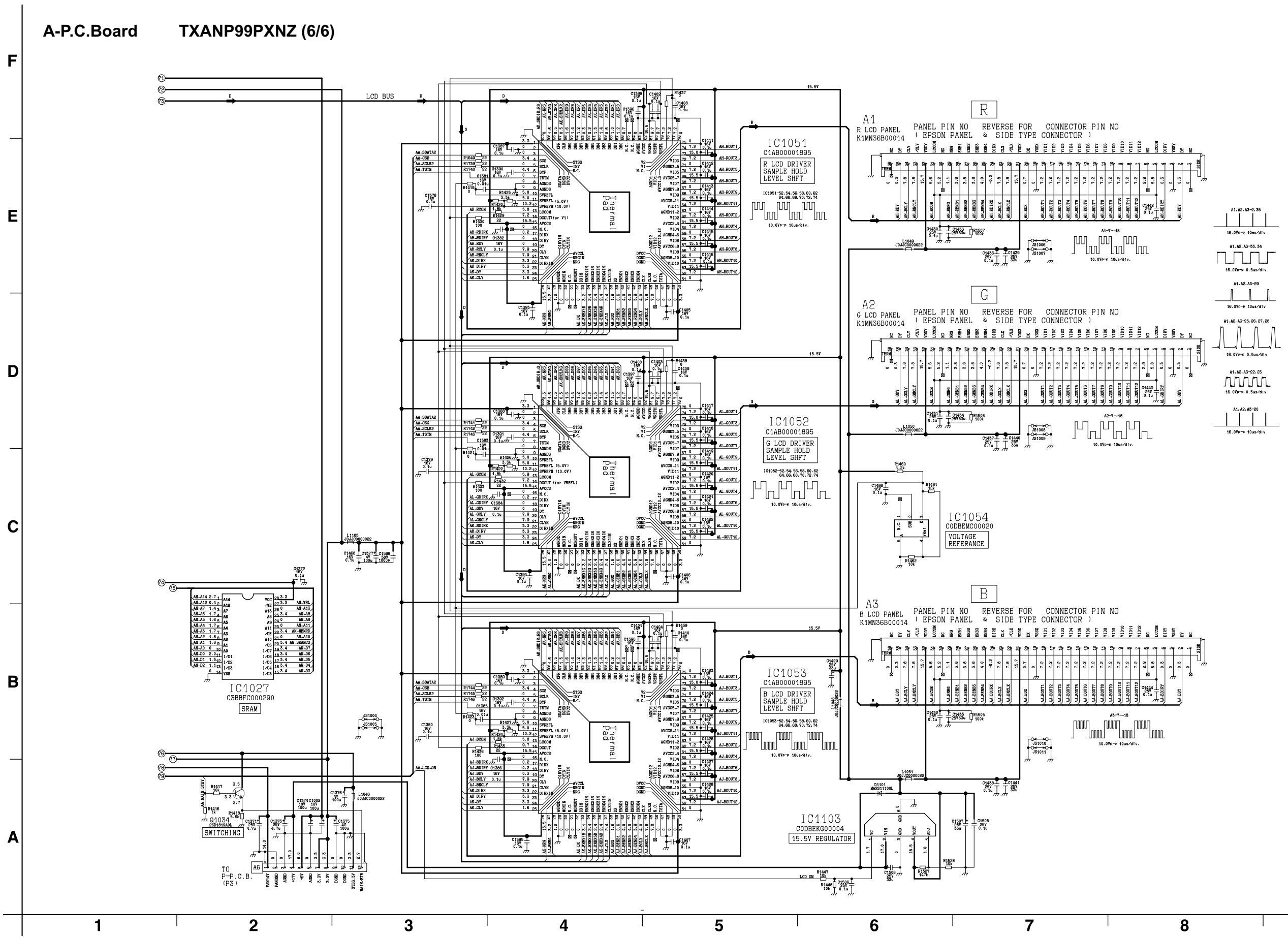
## A-P.C.Board TXANP99PXNZ (5/6)



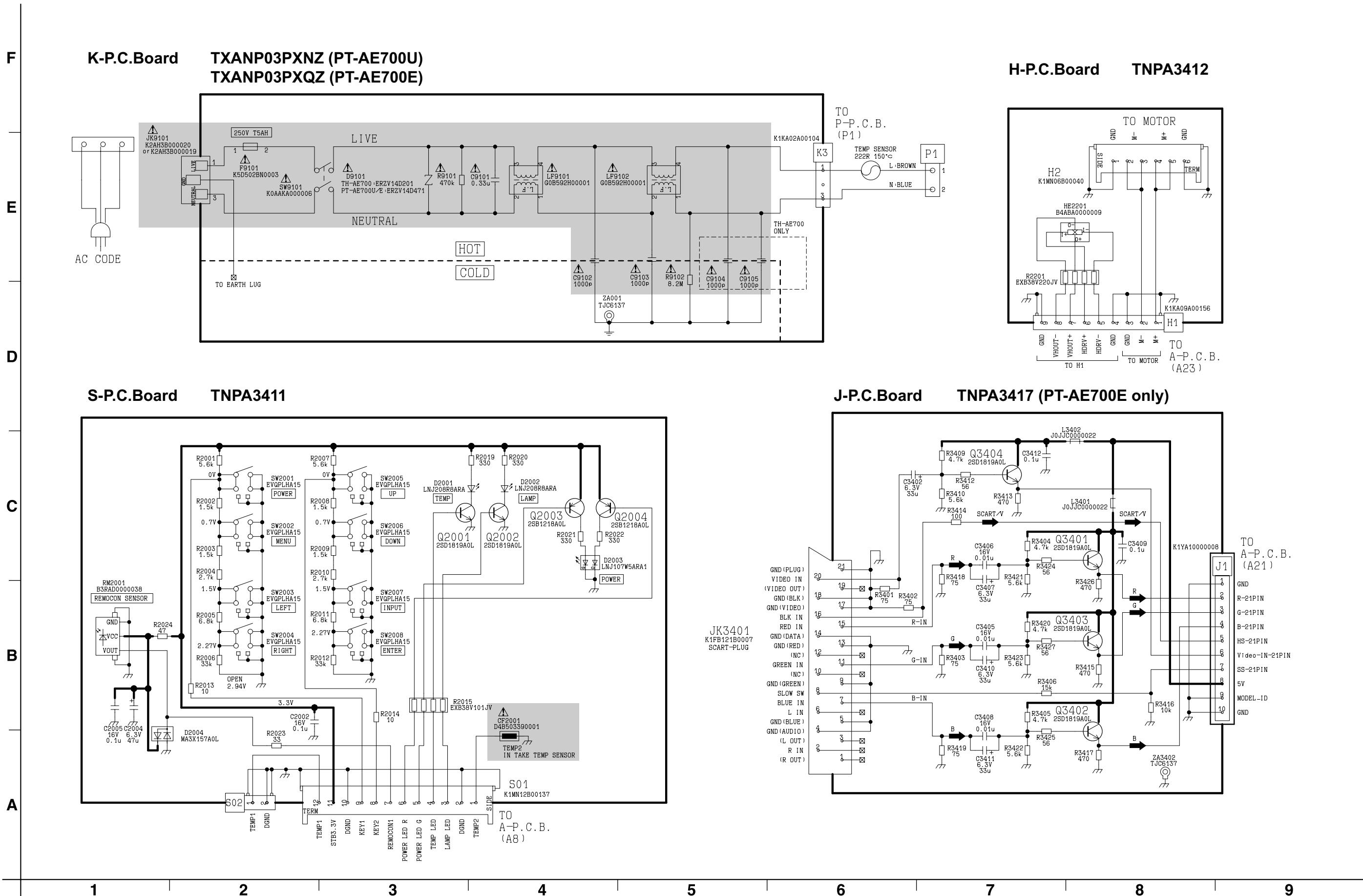
## 11.6. A-P.C. Board (6/6)

## A-P.C. Board

TXANP99PXNZ (6/6)



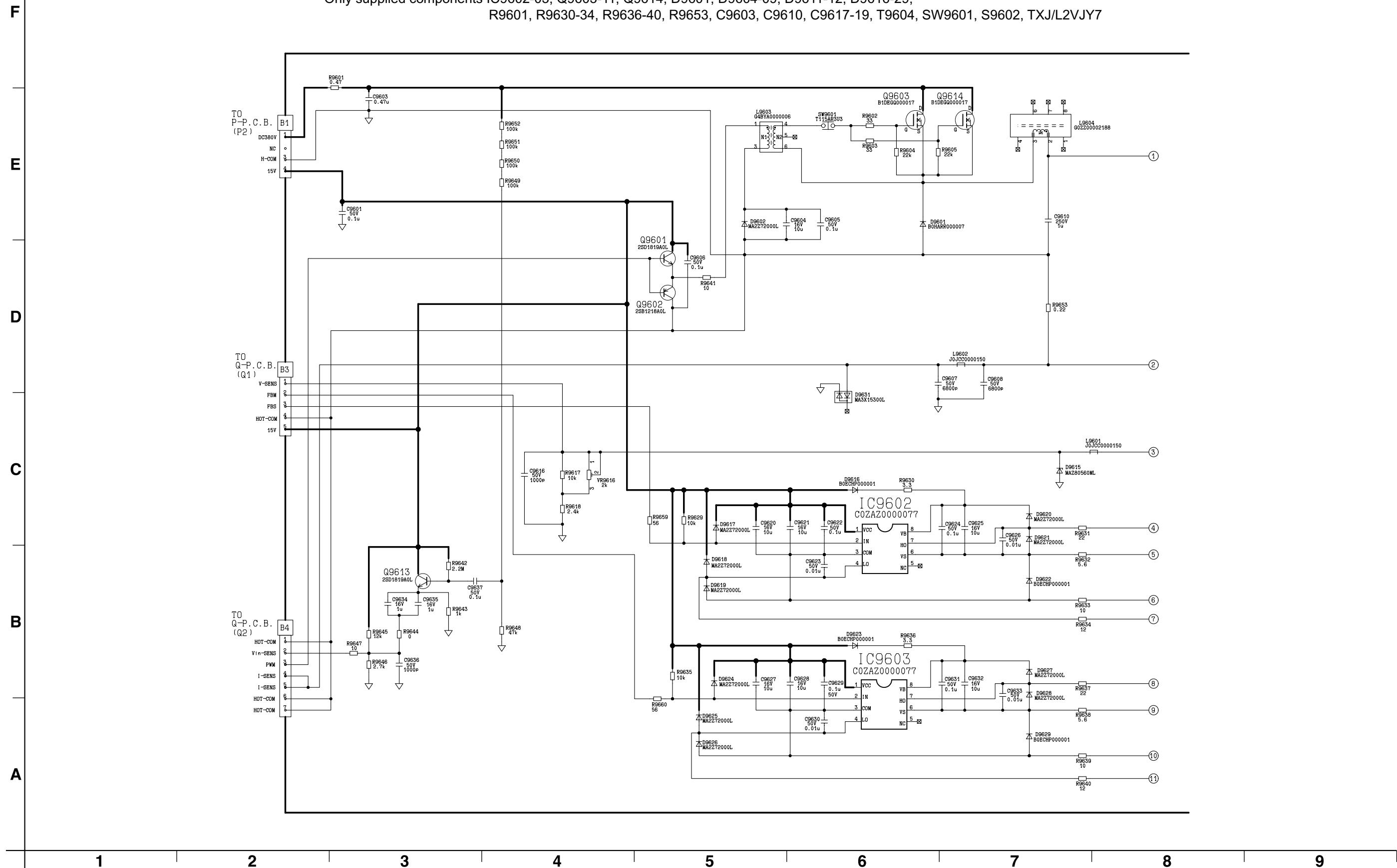
## 11.7. K-P.C.Board, S-P.C.Board, H-P.C.Board, J-P.C.Board



## 11.8. B-Module (1/2)

### B-Module TXANP02VJY7 (1/2) Module Replacement

Only supplied components IC9602-03, Q9603-11, Q9614, D9601, D9604-09, D9611-12, D9616-29, R9601, R9630-34, R9636-40, R9653, C9603, C9610, C9617-19, T9604, SW9601, S9602, TXJ/L2VJY7

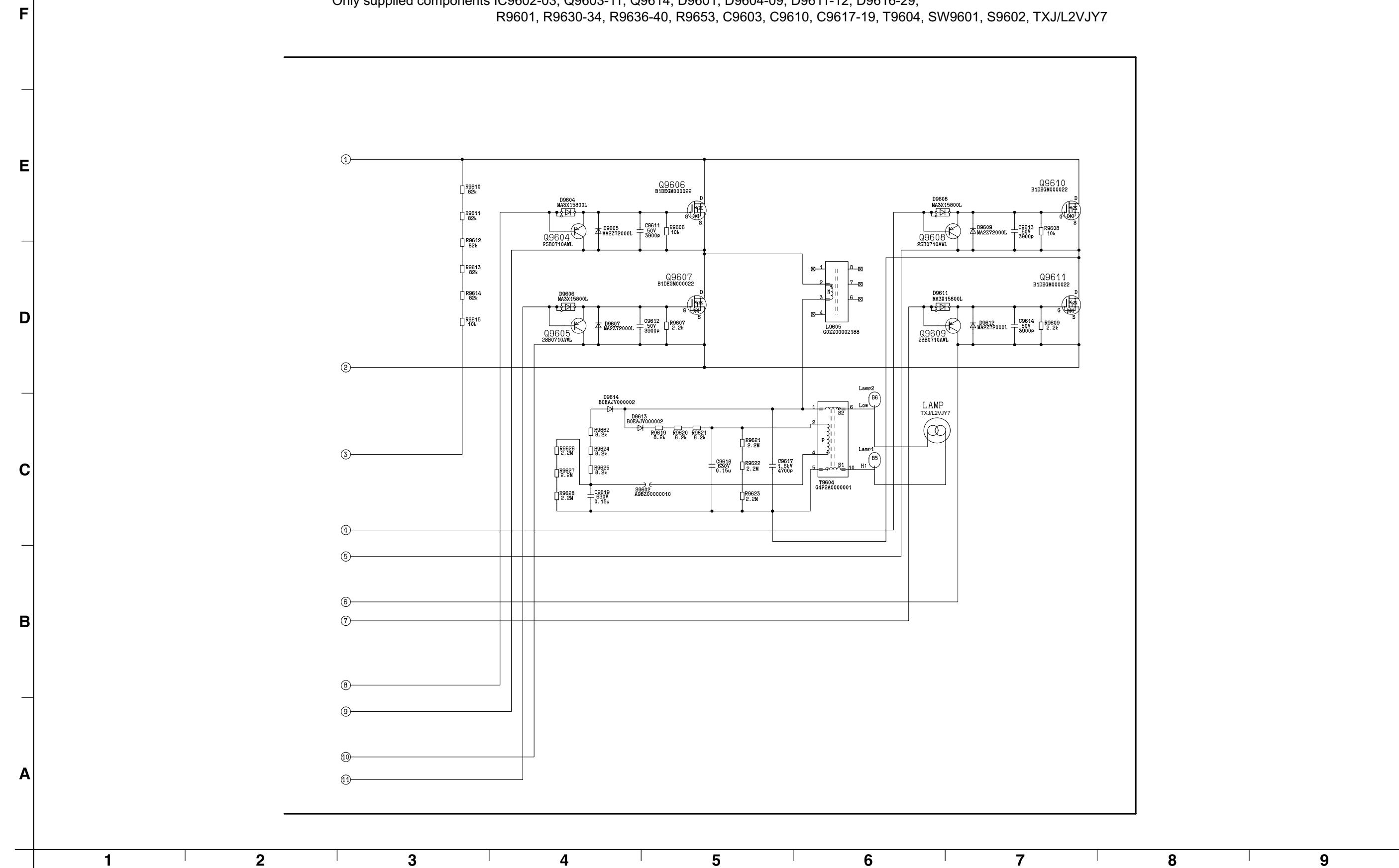


## 11.9. B-Module (2/2)

B-Module TXANP02VJY7 (2/2) Module Replacement

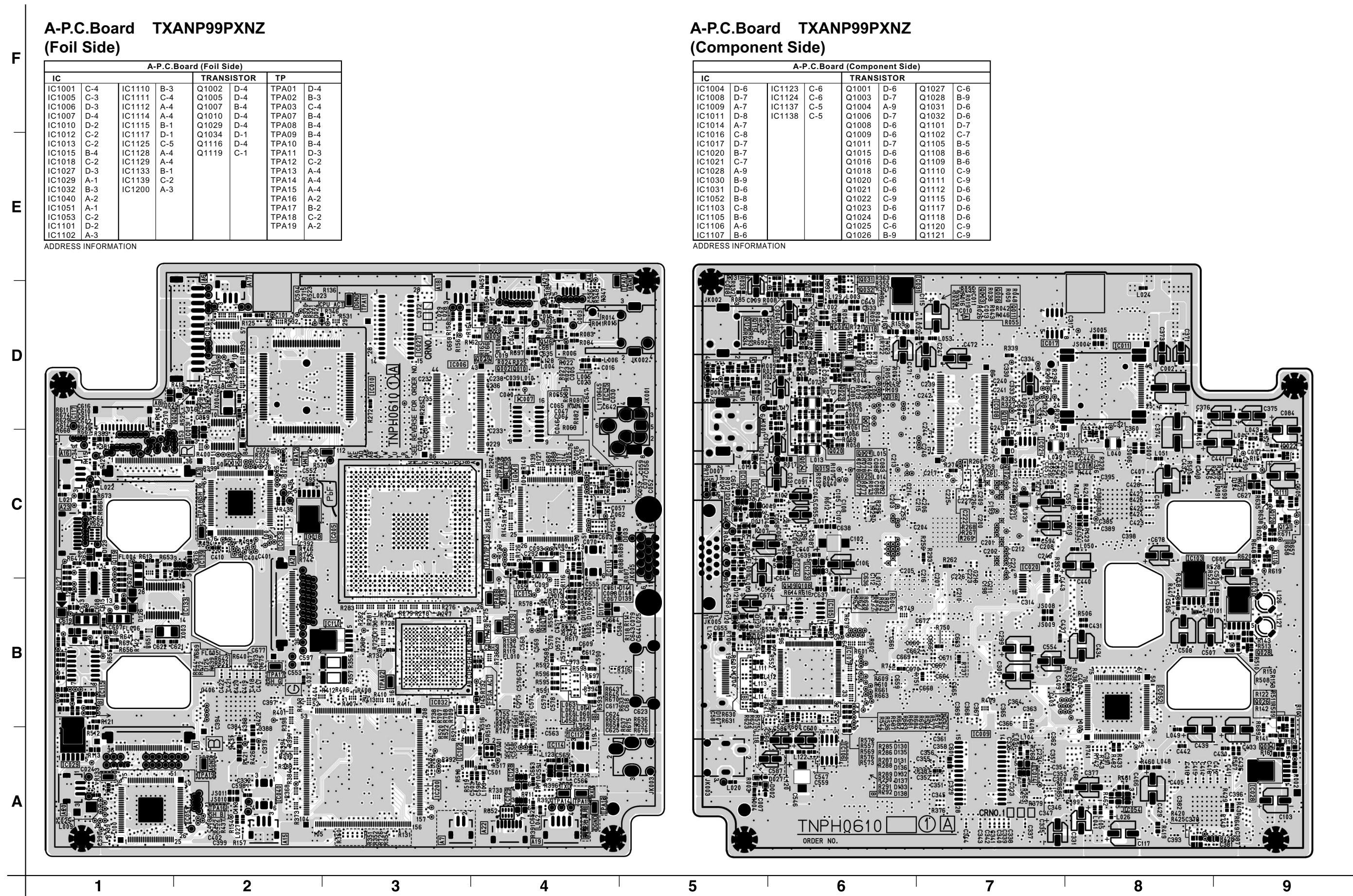
Only supplied components IC9602-03, Q9603-11, Q9614, D9601, D9604-09, D9611-12, D9616-21

R9601, R9630-34, R9636-40, R9653, C9603, C9610, C9617-19, T9604, SW9601, S9602, TXJ/L2VJY

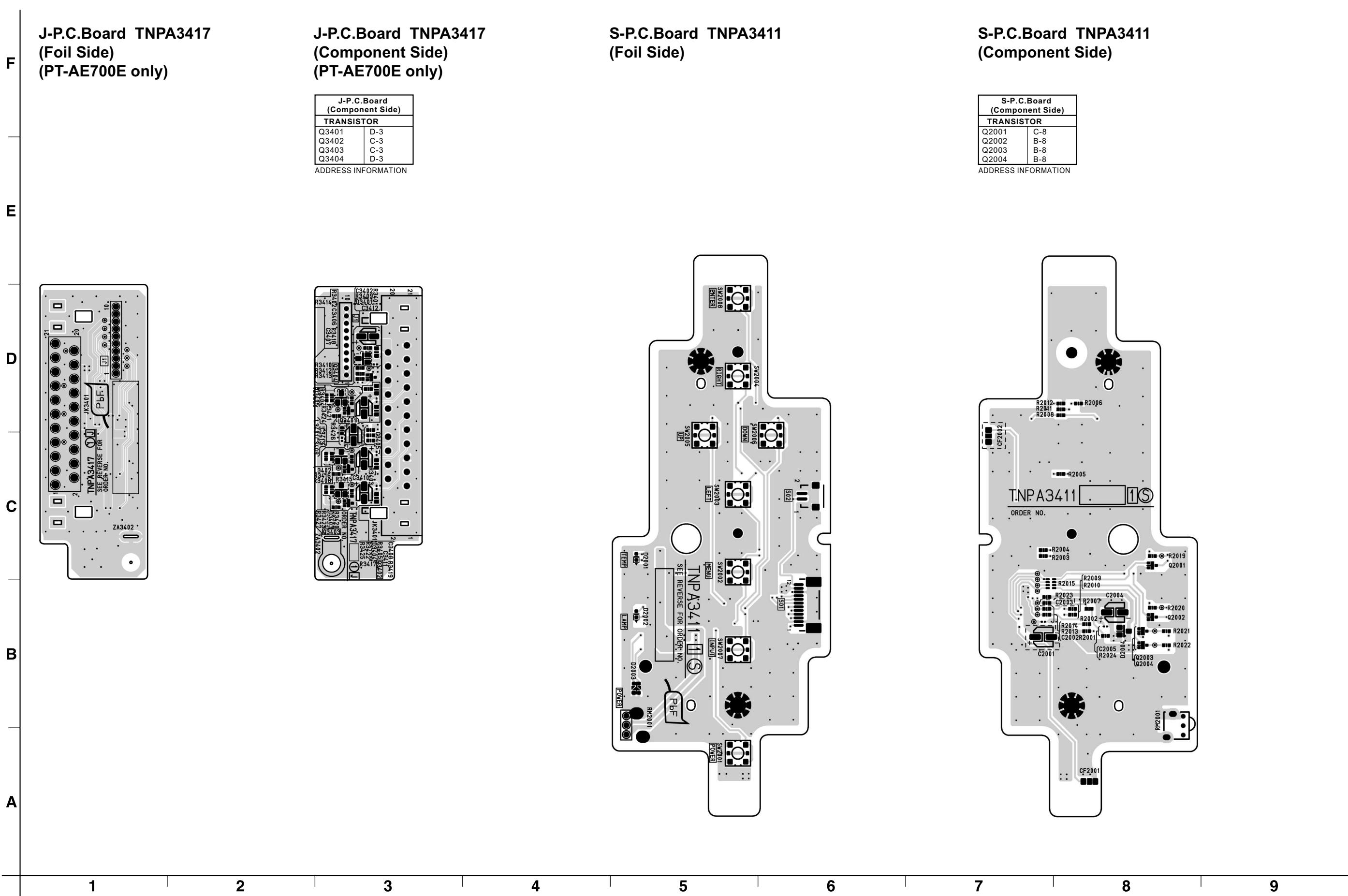


## 12 Circuit Boards

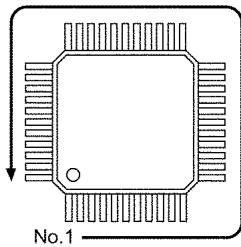
### 12.1. A-P.CBoard



## 12.2. J-P.C.Board/S-P.C.Board

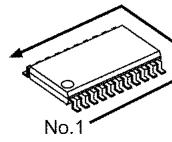


## 13 Terminal guide of ICs and transistors



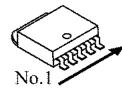
C1AB00001895  
MN864720

100 Pin  
128 Pin



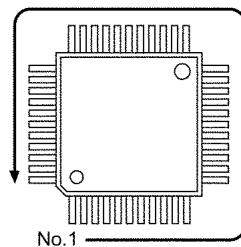
C0ABCA000007  
C2CBEB000002  
C0JBAF000379  
C3ABPJ000071  
C1AB00000740  
C0ZBZ0000712  
C0JBAR000294  
C0JBAR000367

14 Pin  
28 Pin  
20 Pin  
86 Pin  
16 Pin  
28 Pin  
16 Pin  
16 Pin



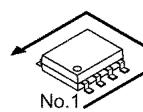
C0DBCFCG00009  
C0DBEZE00002  
C0CBCAG00007  
C0DBEKG00004

5 Pin  
5 Pin  
5 Pin  
5 Pin



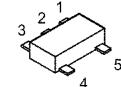
C1AB00001988

100 Pin



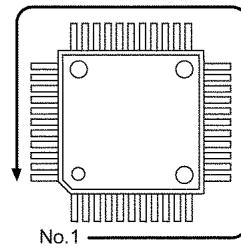
C0JBAZ002128  
C0FBBD000065

8 Pin  
8 Pin



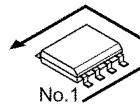
C0CBBCA00016  
C0CBCDD00004  
C0JBAZ002115  
C0JBAE000146  
C0DBEMC00020  
C0JBAA000359  
C0CBCAD00015

5 Pin  
5 Pin  
5 Pin  
5 Pin  
5 Pin  
5 Pin  
5 Pin



C1AB00001721

208 Pin

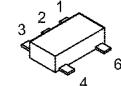


C3EBDC000046  
C3EBKC000014

8 Pin  
8 Pin

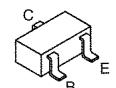
C0JBAZ002210

5 Pin

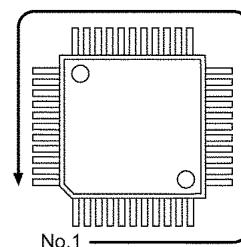


C0DBZFF00004  
C0DBZGF00002

6 Pin  
6 Pin

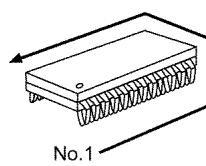


2SB1218A0L  
2SD1819A0L



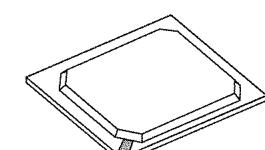
C2DBYH000017

112 Pin

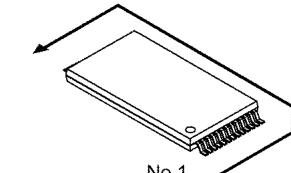


C3BBFC000290

28 Pin



C1AB00002031

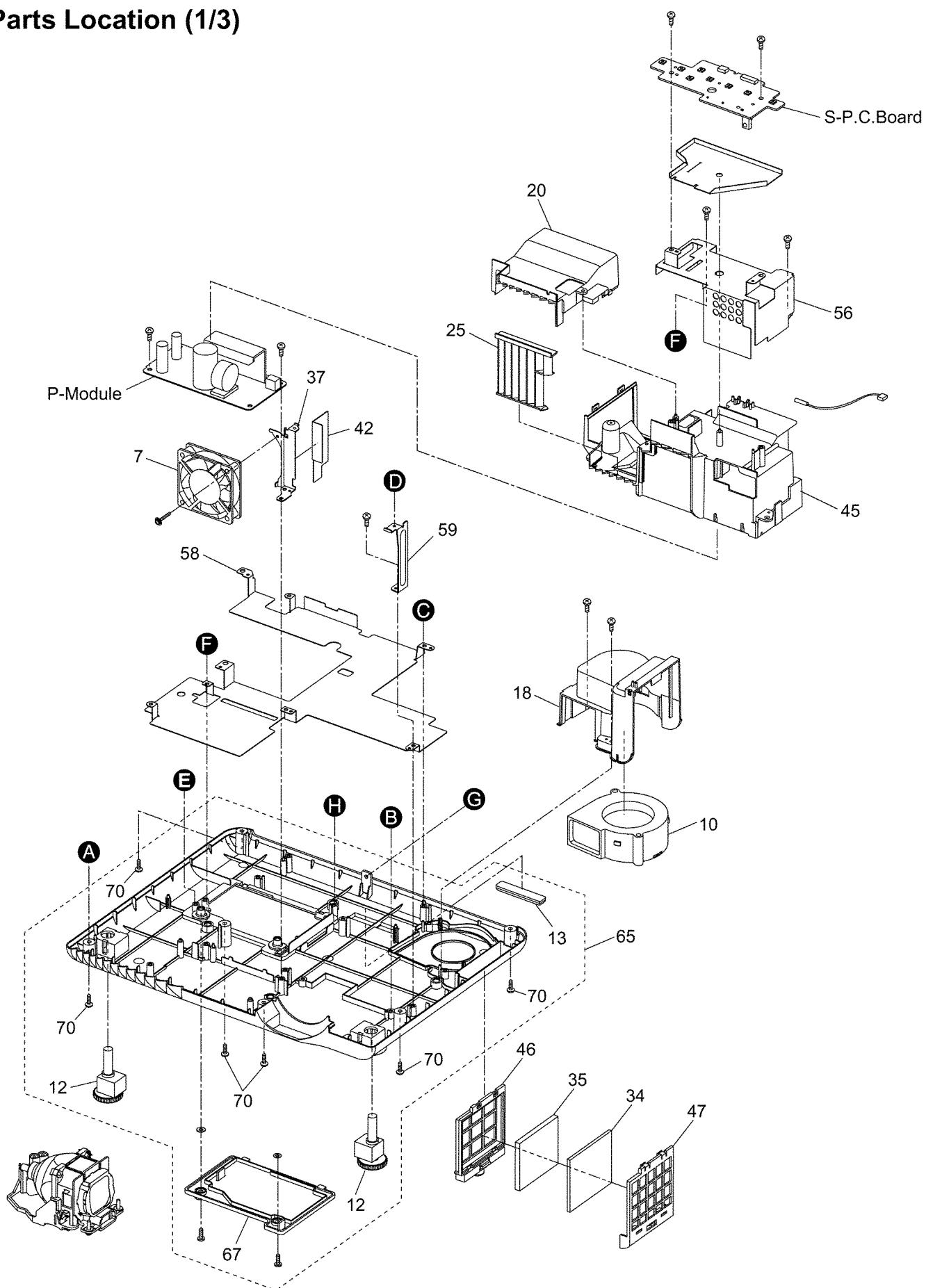


TVRN330

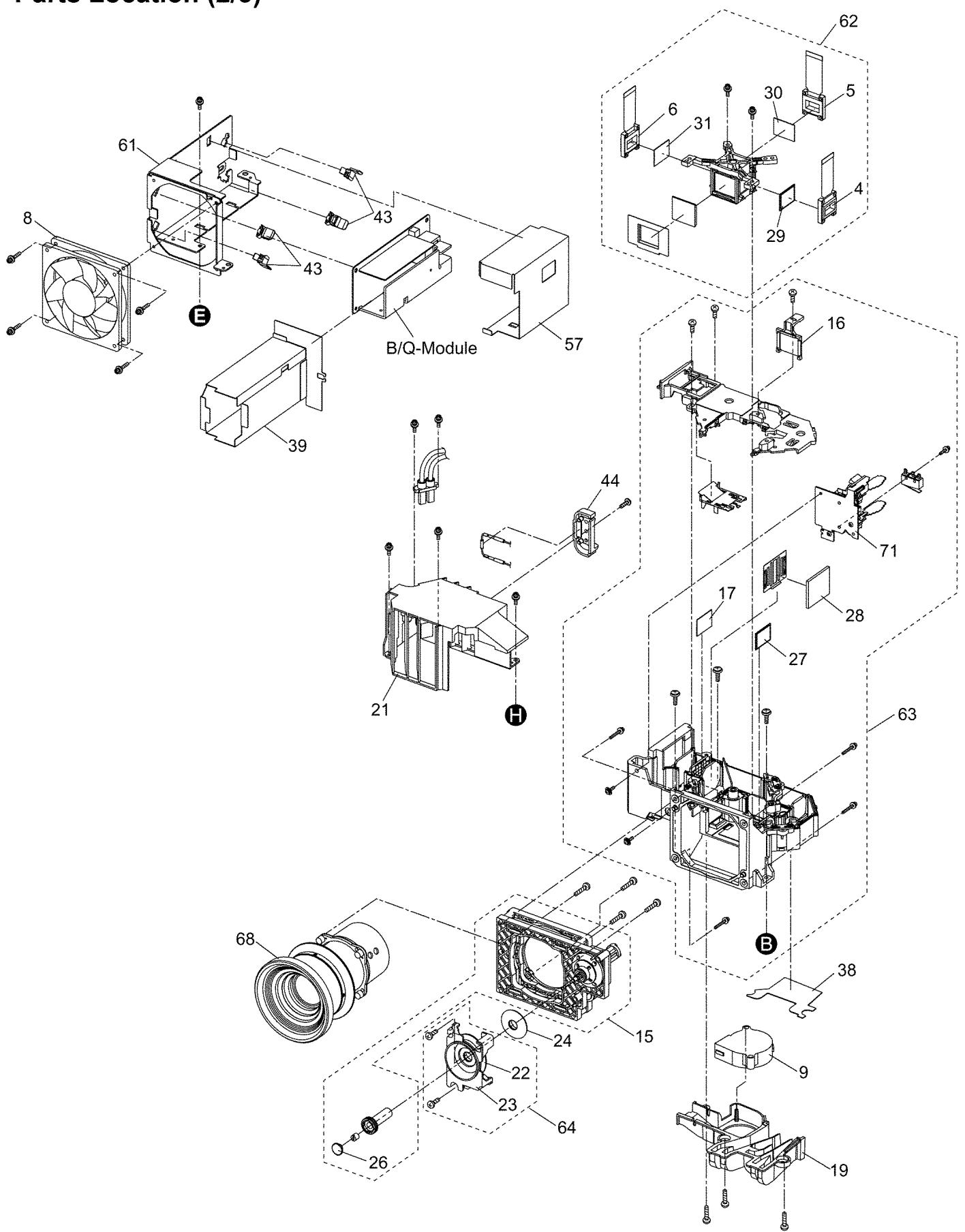
48 Pin

# 14 Exploded Views

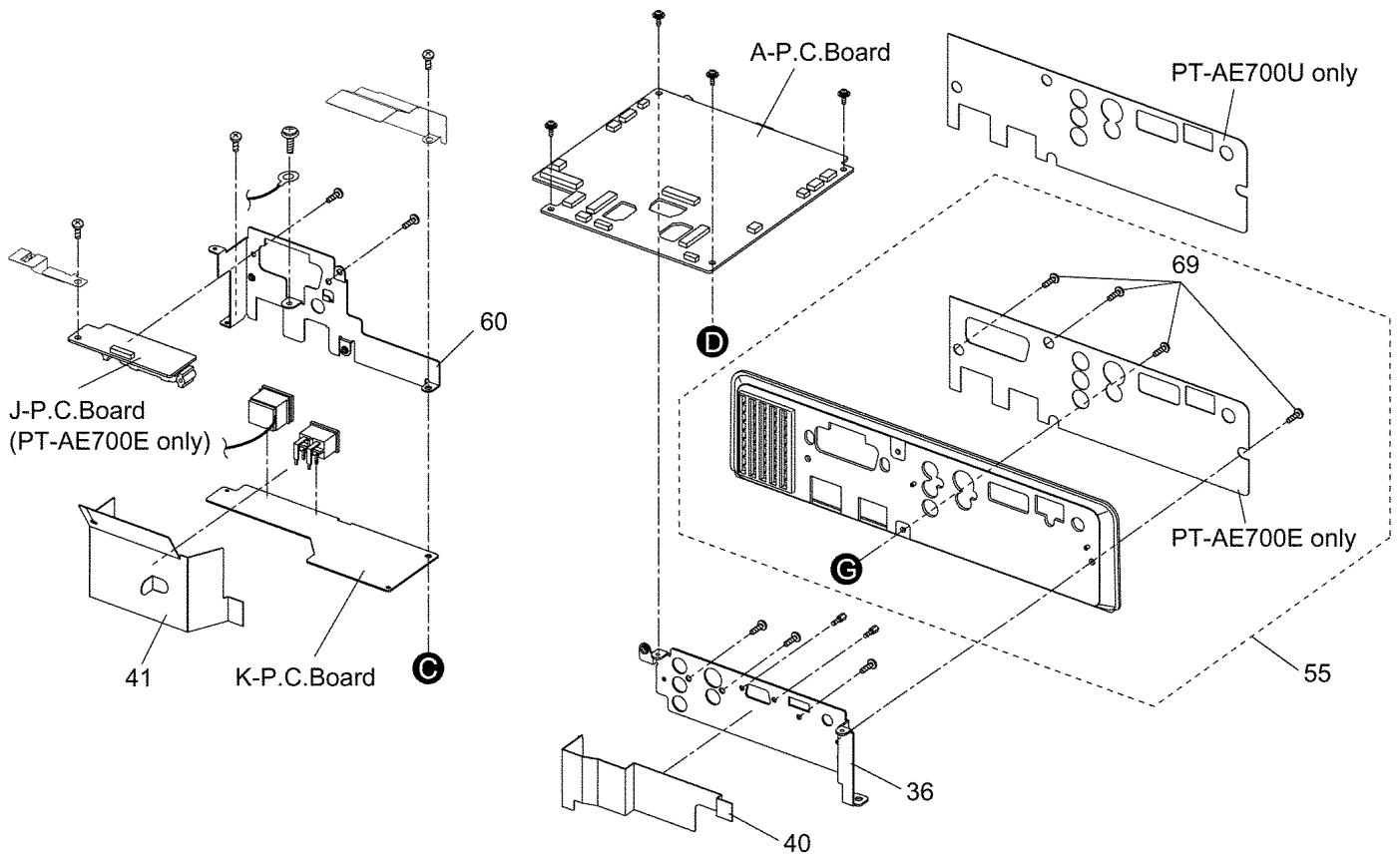
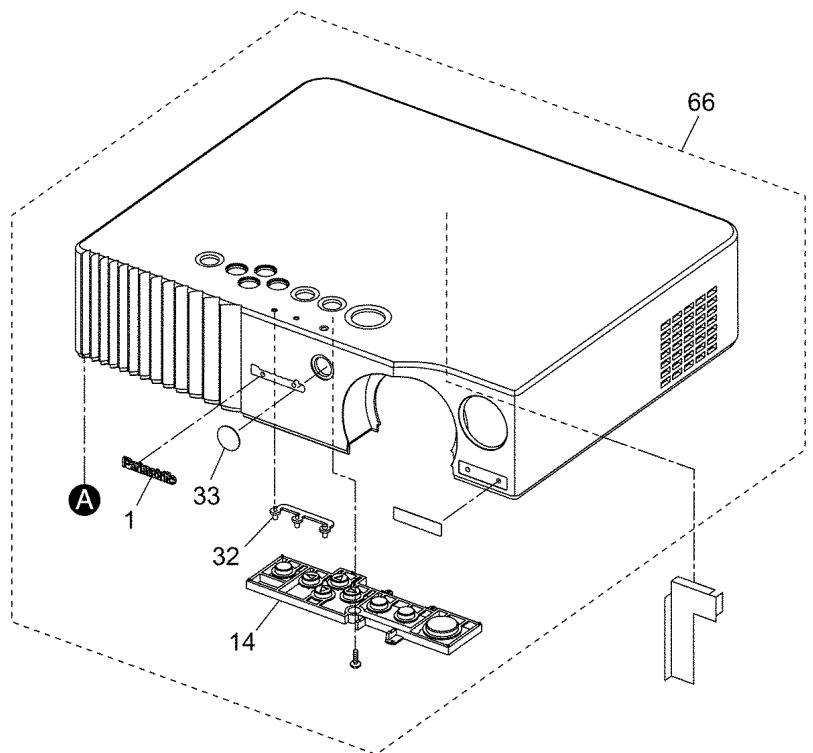
## Parts Location (1/3)



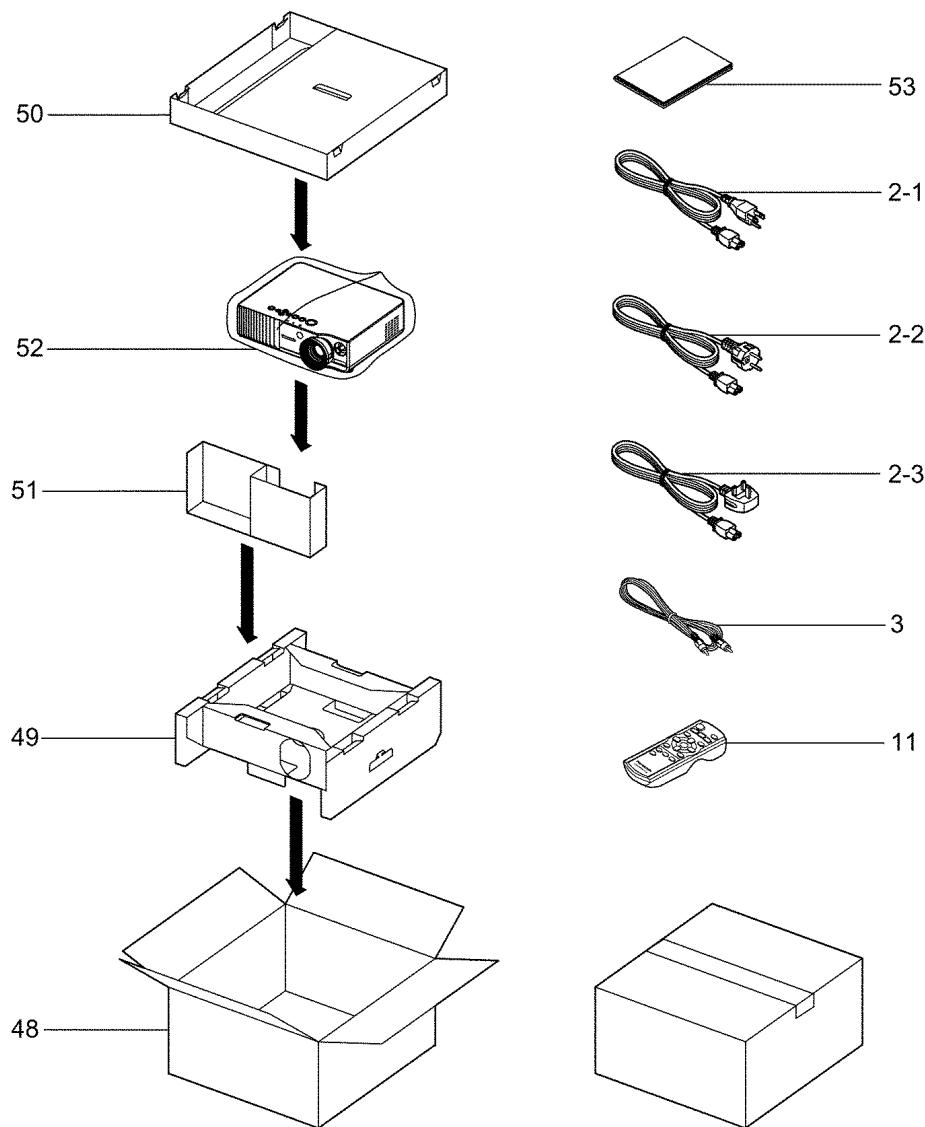
## Parts Location (2/3)



## Parts Location (3/3)



## Packing Parts



# 15 Replacement Parts List

## Important Safety Notice

Components identified by the International symbol  have special characteristics important for safety.  
When replacing any of these components, use only the manufacturer's specified parts.

### Abbreviation of part name and description

#### 1. Resistor

Example:

ERD25TJ104 C 100KOHM, J 1/4W

| TYPE | ALLOWANCE |
|------|-----------|
|------|-----------|

| TYPE            | ALLOWANCE |
|-----------------|-----------|
| C : Carbon      | F : - 1 % |
| F : Fuse        | G : - 2 % |
| M : Metal Oxide | J : - 5 % |
| Metal Film      | K : -10%  |
| S : Solid       | M : -20%  |
| W : Wire Wound  |           |

#### 2. Capacitor

Example:

ECKF1H103ZF C 0.01PF, Z 50V

| TYPE | ALLOWANCE |
|------|-----------|
|------|-----------|

| TYPE               | ALLOWANCE        |
|--------------------|------------------|
| C : Ceramic        | C : -0.25 pF     |
| E : Electrolytic   | D : -0.5 pF      |
| P : Polyester      | F : - 1 pF       |
| PP : Polypropylene | J : - 5 %        |
| S : Polystyrol     | K : -10 %        |
| T : Tantalum       | L : -15 %        |
|                    | M : -20 %        |
|                    | P : +100 %, -0 % |
|                    | Z : +80 %, -20 % |

### Notes:

Printed circuit board assembly with mark (RTL) is no longer available after production discontinuation of the complete set.

| Ref. No.           | Part No.      | Part Name & Description   | Remarks   |
|--------------------|---------------|---------------------------|---|
|                    |               |                           |   |
| [MECHANICAL PARTS] |               |                           |   |
|                    |               |                           |   |
|                    | D4CDH5030002  | TEMP SENSOR               |   |
| 1                  | DFGB0112ZA-0  | PANASONIC BADGE           |   |
|                    | J0KG00000052  | CORE                      |   |
| 2-1                | K2CG3FR00001  | POWER CORD                |  PT-AE700U |
| 2-2                | K2CM3FR00002  | POWER CORD(EUROPE)        |  PT-AE700E |
| 2-3                | K2CT3FR00003  | POWER CORD(U.K.)          |  PT-AE700E |
| 3                  | K2KA2FA00003  | AV CABLE                  |   |
| 4                  | L5BDAXQ00188  | LIQUID CRYSTAL DISPLAY(R) | L3D07H-55G01 (RED MARK)   |
| 5                  | L5BDAXQ00189  | LIQUID CRYSTAL DISPLAY(G) | L3D07H-55G01 (NO MARK)  |
| 6                  | L5BDAXQ00190  | LIQUID CRYSTAL DISPLAY(B) | L3D07H-55G01 (BLUE MARK)  |
| 4                  | L5BDAXQ00191  | LIQUID CRYSTAL DISPLAY(R) | L3D07H-56G01 (RED MARK)   |
| 5                  | L5BDAXQ00192  | LIQUID CRYSTAL DISPLAY(G) | L3D07H-56G01 (NO MARK)  |
| 6                  | L5BDAXQ00193  | LIQUID CRYSTAL DISPLAY(B) | L3D07H-56G01 (BLUE MARK)  |
| 7                  | L6FAKCEH0010  | POWER FAN                 |            |
| 8                  | L6FALEGH0012  | VENTILATION FAN           |            |
| 9                  | L6FCHC9H0004  | PBS FAN                   |            |
| 10                 | L6FCLFC9H0006 | INHALATION FAN            |            |
| 11                 | N2QAEA000025  | REMOTE CONTROLLER         |   |
| 12                 | TBLB0047      | ADJUST LEG                |   |
| 13                 | TBLG3042      | RUBBER LEG                |   |
|                    | TBMA160       | LOGO BADGE                |   |
|                    | TBMP685       | MODEL NAME PLATE          | PT-AE700U   |
|                    | TBMP686       | MODEL NAME PLATE          | PT-AE700E   |
|                    | TBMP688       | MODEL NO. LABEL           | PT-AE700U   |
|                    | TBMP689       | MODEL NO. LABEL           | PT-AE700E   |
| 14                 | TBXA44901     | CONTROL BUTTON            |   |
| 15                 | TEEC0035      | SHIFUT MECHANISM UNIT     |   |
| 16                 | TEEC0036      | POLARIZING PLATE/IN(G)    | OPTICAL LABEL : TXZKG01VJY7A  |
|                    | TEEC0037      | POLARIZING PLATE/IN(G)    | OPTICAL LABEL : TXZKG01VJY7B  |
| 18                 | TEEC5173      | INHALATION DUCT           |   |
| 19                 | TEEC5174      | OPTICAL DUCT              |   |
| 20                 | TEEC5176      | DUCT COVER                |   |

| Ref. No. | Part No.  | Part Name & Description  | Remarks                      |
|----------|-----------|--------------------------|------------------------------|
| 21       | TEEC5179  | LAMP HOUSE               |                              |
| 22       | TEEC5180  | MASK MECHANISM 1         |                              |
| 23       | TEEC5181  | MASK MECHANISM 2         |                              |
| 24       | TEEC5182  | MASK MECHANISM 3         |                              |
| 25       | TEEC5183  | SHADING LOUVER           |                              |
| 26       | TEFC5030  | LENS SHIFT CAP           |                              |
|          | TESD067   | SPRING                   |                              |
|          | THEC035N  | SCREW                    |                              |
|          | THNX0389  | NUT                      |                              |
| 28       | TKGP5240  | PBS                      |                              |
| 29       | TKGP5244  | POLARIZING PLATE/OUT(R)  |                              |
| 30       | TKGP5245  | POLARIZING PLATE/OUT(G)  |                              |
| 31       | TKGP5246  | POLARIZING PLATE/OUT(B)  | OPTICAL LABEL : TXZKG01VJY7A |
| 27       | TKGP5247  | POLARIZING PLATE/IN(R)   | OPTICAL LABEL : TXZKG01VJY7B |
| 17       | TKGP5249  | POLARIZING PLATE/IN(B)   |                              |
|          | TKGP5252  | POLARIZING PLATE/OUT(B)  | OPTICAL LABEL : TXZKG01VJY7B |
| 27       | TKGP5253  | POLARIZING PLATE/IN(R)   | OPTICAL LABEL : TXZKG01VJY7A |
| 32       | TKKC5195  | LED DIFFUSION PLATE      |                              |
| 33       | TKKC5199  | REMOTE CONTROL RECEIVER  |                              |
|          | TKKL5318  | LENS CAP                 |                              |
| 34       | TKNE055   | FILTER                   |                              |
| 35       | TKNE056   | ELECTRIFICATION FILTER   |                              |
| 36       | TKZF5037  | TERMINAL METAL           |                              |
| 37       | TKZJ5059  | POWER FAN INSTAL METAL   |                              |
|          | TMKX100   | WASHER                   |                              |
| 38       | TMKX761   | OPTICAL DUCT COVER       |                              |
| 39       | TMKX764-1 | BALLAST INSULATION SHEET |                              |
| 40       | TMKX765-1 | SHADING SHEET            |                              |
| 41       | TMKX766-1 | SHADING SHEET(K-PCB)     |                              |
|          | TMKX771   | SHADING SHEET 2 (K-PCB)  |                              |
| 42       | TMKX784   | POWER FAN SHEET          |                              |
|          | TMKX790   | SHADING SHEET            | PT-AE700U (SCART TERMINAL)   |
|          | TMKX793   | COVER SHEET              |                              |

| Ref. No. | Part No.     | Part Name & Description | Remarks                      |
|----------|--------------|-------------------------|------------------------------|
|          | TMKX794      | PLATE                   |                              |
|          | TMME154      | FUSE COVER              |                              |
| 43       | TMME241      | SPACER                  |                              |
|          | TMME244      | SPACER                  |                              |
| 44       | TMXC017      | TEMP FUSE METAL         |                              |
| 45       | TMXE041      | POWER BOX               |                              |
| 46       | TMZX5047     | FILTER COVER 1          |                              |
| 47       | TMZX5048     | FILTER COVER 2          |                              |
| 48       | TPCB68302    | CARTON                  | PT-AE700U                    |
|          | TPCB68303    | CARTON                  | PT-AE700E                    |
| 49       | TPDF1317     | PAD                     |                              |
| 50       | TPDF1318     | ACCESSORY CARTON        |                              |
| 51       | TPDF1349     | REINFORCEMENT PAD       |                              |
| 52       | TPEH124-1    | SET COVER               |                              |
|          | TQB817002-1  | SAFETY SHEET            | PT-AE700U                    |
| 53       | TQBJ0161     | INSTRUCTION BOOK        | ▲ PT-AE700U                  |
|          | TQBJ0162     | INSTRUCTION BOOK        | ▲ PT-AE700E                  |
|          | TQBJ7002-1   | SHEET                   | PT-AE700U                    |
|          | TQDJ1712010  | SHEET                   |                              |
|          | TQDJ18011    | GUARANTEE CARD(USA)     | PT-AE700U                    |
|          | TQDJ18012    | GUARANTEE CARD(CANADA)  | PT-AE700U                    |
|          | TQF86202     | LABEL                   |                              |
|          | TSXL429      | FLEXIBLE CABLE(A8-S1)   | ▲                            |
| 55       | TTPA0392     | TERMINAL COVER ASSY     | PT-AE700U                    |
|          | TTPA0393     | TERMINAL COVER ASSY     | PT-AE700E                    |
|          | TUCA5006     | SCART TERMINAL PLATE    | PT-AE700E                    |
|          | TUCB5033     | ALUMINUM SHEET 1        |                              |
|          | TUCB5034-1   | ALUMINUM SHEET 2        |                              |
|          | TUCB5035     | ALUMINUM SHEET 3        |                              |
| 56       | TUCC6005     | POWER SHIELD METAL      |                              |
| 57       | TUCC6019     | BALLAST SHEILD METAL    |                              |
| 58       | TUCX5180     | BASE METAL              |                              |
| 59       | TUCX5181     | GROUND METAL 1          |                              |
| 60       | TUWC053      | INSTAL METAL(K-PCB)     |                              |
| 61       | TUXE237      | BALLAST INSTAL METAL    |                              |
|          | TXAJE01VJN7A | LEAD WIRE(K-PCB)        |                              |
| 62       | TXFEC99VJY7A | OPTICAL BLOCK (A)       | OPTICAL LABEL : TXZKG01VJY7A |
|          | TXFEC99VJY7B | OPTICAL BLOCK (B)       | OPTICAL LABEL : TXZKG01VJY7B |
| 63       | TXFEC98VJY7A | ANALYSIS BLOCK (A)      | OPTICAL LABEL : TXZKG01VJY7A |
|          | TXFEC98VJY7B | ANALYSIS BLOCK (B)      | OPTICAL LABEL : TXZKG01VJY7B |
| 64       | TXFEE01VJY7  | MASK MECHANISM ASSY     |                              |
| 65       | TXFKF01PXNZ  | BOTTOM COVER            | PT-AE700U                    |
|          | TXFKF01PXQZ  | BOTTOM COVER            | PT-AE700E                    |
| 66       | TXFKF02PXNZ  | UPPER COVER             | PT-AE700U                    |
|          | TXFKF02PXQZ  | UPPER COVER             | PT-AE700E                    |
| 67       | TXFKL01VJY7  | LAMP COVER ASSY         |                              |
|          | TXJ/B1VJV5   | LEAD WIRE(B1-P2)        | ▲                            |
|          | TXJ/ELVJY7   | CABLE WITH INTERLOCK SW | ▲                            |
|          | TXJ/H1VJY7   | LEAD WIRE(H1-A23Åj)     | ▲                            |
|          | TXJ/J1VJY7   | LEAD WIRE(J-PCB)        | PT-AE700E                    |
|          | TXJ/L2VJY7   | LAMP CABLE              |                              |
|          | TXJ/P1VJY7   | LEAD WIRE(K1-P1)        | ▲ TEMP FUSE                  |
|          | TXJ/P3VJY7   | LEAD WIRE(P3-A6)        | ▲                            |
|          | TXJ/Q3VJY7   | LEAD WIRE(Q3-A4)        | ▲                            |
| 71       | TXZEN01VJY7  | IRIS UNIT ASSY          |                              |
| 68       | TXZPL01VJY7  | LENS ASSY               |                              |
| 69       | XSB3+10FN    | SCREW                   |                              |
|          | XSN3+8FJK    | SCREW                   |                              |
|          | XSN3+8FN     | SCREW                   |                              |
| 70       | XTB3+12CFN   | SCREW                   |                              |
|          | XTBT969FJK   | SCREW                   |                              |
|          | XTN3+6G      | SCREW                   |                              |
|          | XTN3+6GFJ    | SCREW                   |                              |
|          | XTW3+8PFJ    | SCREW                   |                              |
|          | XYN2+F6FJ    | SCREW                   |                              |
|          | XYN2+J10FJ   | SCREW                   |                              |
|          | XYN2+J4FJ    | SCREW                   |                              |
|          | XYN3+F20FJ   | SCREW                   |                              |
|          | XYN3+F8FJ    | SCREW                   |                              |

| Ref. No. | Part No.      | Part Name & Description | Remarks      |
|----------|---------------|-------------------------|--------------|
|          | XYN3+J10FJ    | SCREW                   |              |
|          | XYN3+J12FJ    | SCREW                   |              |
|          | XYN3+J8FJ     | SCREW                   |              |
|          | XYN4+E8FJ     | SCREW                   |              |
|          | XZBT6532      | BAG                     | PT-AE700U    |
|          |               |                         |              |
|          |               | [ INTEGRATED CIRCUIT ]  |              |
|          |               |                         |              |
| IC1001   | C1AB00001988  | I.C                     |              |
| IC1004   | C0JBAR000367  | I.C                     |              |
| IC1005   | C1AB00002031  | I.C                     |              |
| IC1006   | C3ABPJ000071  | I.C                     |              |
| IC1007   | C1AB00000740  | I.C                     |              |
| IC1008   | C3ABPJ000071  | I.C                     |              |
| IC1009   | C0ZBZ0000971  | I.C                     |              |
| IC1010   | C2DBYH000017  | I.C                     |              |
| IC1011   | TVRN329       | I.C                     |              |
| IC1012   | TC74LCX574TL  | I.C                     | COJBAF000315 |
| IC1013   | C0JBAE000324  | I.C                     |              |
| IC1015   | C0JBAZ002115  | I.C                     |              |
| IC1016   | C0EBE0000336  | I.C                     |              |
| IC1018   | C0CBCAG00007  | I.C                     |              |
| IC1020   | C0JBAR000294  | I.C                     |              |
| IC1021   | C0FBBDD000065 | I.C                     |              |
| IC1027   | C3BBFC000290  | I.C                     |              |
| IC1028   | C0DBEZE00002  | I.C                     |              |
| IC1029   | C0DBEZE00002  | I.C                     |              |
| IC1030   | C0DBEZE00002  | I.C                     |              |
| IC1031   | C0DBEZE00002  | I.C                     |              |
| IC1032   | C1ZBZ0002561  | I.C                     |              |
| IC1040   | C0DBZFF00004  | I.C                     |              |
| IC1051   | C1AB00001895  | I.C                     |              |
| IC1052   | C1AB00001895  | I.C                     |              |
| IC1053   | C1AB00001895  | I.C                     |              |
| IC1054   | C0DBEMC00020  | I.C                     |              |
| IC1101   | TC74LCX574TL  | I.C                     | COJBAF000315 |
| IC1102   | C0JBAZ002128  | I.C                     |              |
| IC1103   | C0DBEKG00004  | I.C                     |              |
| IC1105   | C3EBDC000046  | I.C                     |              |
| IC1107   | MN864720      | I.C                     |              |
| IC1110   | C0DBCFG00005  | I.C                     |              |
| IC1111   | C0DBZGF00002  | I.C                     |              |
| IC1114   | C0CBCAD00016  | I.C                     |              |
| IC1115   | C0ABCAD00062  | I.C                     |              |
| IC1117   | C1BBB00000818 | I.C                     |              |
| IC1123   | C0CBCAD00015  | I.C                     |              |
| IC1124   | C0CBCAD00015  | I.C                     |              |
| IC1125   | C0CBCDD00004  | I.C                     |              |
| IC1128   | C0JBAZ002210  | I.C                     |              |
| IC1129   | C0JBAZ002210  | I.C                     |              |
| IC1133   | TVRN330       | I.C                     |              |
| IC1137   | C0JBAA000359  | I.C                     |              |
| IC1138   | C0JBAA000359  | I.C                     |              |
| IC1139   | C0CBCCD00004  | I.C                     |              |
| IC1200   | C1AB00001721  | I.C                     |              |
| IC9602   | C0ZAZ0000077  | I.C                     |              |
| IC9603   | C0ZAZ0000077  | I.C                     |              |
|          |               | [ TRANSISTORS ]         |              |
|          |               |                         |              |
| Q1001    | 2SD1819A      | TRANSISTOR              | 2SD1819AW    |
| Q1002    | 2SB1218A      | TRANSISTOR              |              |
| Q1003    | 2SB1218A      | TRANSISTOR              |              |
| Q1004    | 2SD1819A      | TRANSISTOR              | 2SD1819AW    |
| Q1005    | 2SB1218A      | TRANSISTOR              |              |
| Q1006    | 2SD1819A      | TRANSISTOR              | 2SD1819AW    |
| Q1007    | 2SD1819A      | TRANSISTOR              | 2SD1819AW    |
| Q1008    | 2SD1819A      | TRANSISTOR              | 2SD1819AW    |
| Q1009    | 2SD1819A      | TRANSISTOR              | 2SD1819AW    |
| Q1010    | 2SB1218A      | TRANSISTOR              |              |
| Q1011    | 2SD1819A      | TRANSISTOR              | 2SD1819AW    |
| Q1015    | 2SD1819A      | TRANSISTOR              | 2SD1819AW    |
| Q1016    | 2SD1819A      | TRANSISTOR              |              |

| Ref. No. | Part No.     | Part Name & Description | Remarks   |
|----------|--------------|-------------------------|-----------|
| Q1018    | 2SB1218A     | TRANSISTOR              |           |
| Q1020    | 2SB1218A     | TRANSISTOR              |           |
| Q1021    | 2SB1218A     | TRANSISTOR              |           |
| Q1022    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1023    | 2SB1218A     | TRANSISTOR              |           |
| Q1024    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1025    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1026    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1027    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1028    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1029    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1031    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1032    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1034    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1101    | B1CBHD000001 | TRANSISTOR              |           |
| Q1102    | B1CBHD000001 | TRANSISTOR              |           |
| Q1105    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1108    | B1CBHD000001 | TRANSISTOR              |           |
| Q1109    | B1CBHD000001 | TRANSISTOR              |           |
| Q1110    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1111    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1112    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1115    | 2SB1218A     | TRANSISTOR              |           |
| Q1116    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1117    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1118    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1119    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q1120    | 2SB1218A     | TRANSISTOR              |           |
| Q1121    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q2001    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q2002    | 2SD1819A     | TRANSISTOR              | 2SD1819AW |
| Q2003    | 2SB1218A     | TRANSISTOR              |           |
| Q2004    | 2SB1218A     | TRANSISTOR              |           |
| Q3401    | 2SD1819A     | TRANSISTOR              | PT-AE700E |
| Q3402    | 2SD1819A     | TRANSISTOR              | PT-AE700E |
| Q3403    | 2SD1819A     | TRANSISTOR              | PT-AE700E |
| Q3404    | 2SD1819A     | TRANSISTOR              | PT-AE700E |
| Q9603    | B1DEGQ000017 | TRANSISTOR              |           |
| Q9604    | 2SB710A      | TRANSISTOR              | 2SB0710A  |
| Q9605    | 2SB710A      | TRANSISTOR              | 2SB0710A  |
| Q9606    | B1DEGM000022 | TRANSISTOR              |           |
| Q9607    | B1DEGM000022 | TRANSISTOR              |           |
| Q9608    | 2SB710A      | TRANSISTOR              | 2SB0710A  |
| Q9609    | 2SB710A      | TRANSISTOR              | 2SB0710A  |
| Q9610    | B1DEGM000022 | TRANSISTOR              |           |
| Q9611    | B1DEGM000022 | TRANSISTOR              |           |
| Q9614    | B1DEGQ000017 | TRANSISTOR              |           |
|          |              |                         |           |
|          |              | [ DIODES ]              |           |
| D1002    | MAZ81500ML   | DIODE                   |           |
| D1003    | MAZ80330HL   | DIODE                   |           |
| D1004    | MA8056M      | DIODE                   | MAZ80560M |
| D1005    | MA8056M      | DIODE                   | MAZ80560M |
| D1007    | MAZ80330HL   | DIODE                   |           |
| D1011    | MA8056M      | DIODE                   | MAZ80560M |
| D1012    | MA8056M      | DIODE                   | MAZ80560M |
| D1024    | LNJ208R8ARA  | LED                     |           |
| D1027    | MA2J11100L   | DIODE                   |           |
| D1101    | MA2S11100L   | DIODE                   |           |
| D1105    | EZJZ0V171AA  | VARISTOR                |           |
| D1107    | EZJZ0V171AA  | VARISTOR                |           |
| D1110    | EZJZ0V171AA  | VARISTOR                |           |
| D1117    | MA3056M      | ZENER DIODE             | MAZ30560M |
| D1120    | MA2Z72000L   | DIODE                   |           |
| D1121    | MA2Z72000L   | DIODE                   |           |
| D1122    | MA152WK      | DIODE                   | MA3X152E  |
| D1123    | MA152WK      | DIODE                   | MA3X152E  |
| D1124    | MA153A       | DIODE                   | MA3X153A  |
| D1125    | MA704A       | DIODE                   | MA3X704A  |
| D1126    | B0JCPD000010 | DIODE                   |           |
| D1127    | B0JCPD000010 | DIODE                   |           |
| D1130    | EZJZ0V80008B | VARISTOR                |           |

| Ref. No. | Part No.      | Part Name & Description | Remarks     |
|----------|---------------|-------------------------|-------------|
| D1131    | EZJZ0V80008B  | VARISTOR                |             |
| D1132    | EZJZ0V80008B  | VARISTOR                |             |
| D1133    | EZJZ0V80008B  | VARISTOR                |             |
| D1135    | EZJZ0V80008B  | VARISTOR                |             |
| D1136    | EZJZ0V80008B  | VARISTOR                |             |
| D1137    | EZJZ0V80008B  | VARISTOR                |             |
| D1138    | EZJZ0V80008B  | VARISTOR                |             |
| D1139    | EZJZ0V171AA   | VARISTOR                |             |
| D1140    | EZJZ0V171AA   | VARISTOR                |             |
| D1141    | EZJZ0V171AA   | VARISTOR                |             |
| D1145    | LNJ208R8ARA   | LED                     |             |
| D2001    | LNJ208R8ARA   | LED                     |             |
| D2002    | LNJ208R8ARA   | LED                     |             |
| D2003    | LNJ107W5ARA1  | LED                     |             |
| D2004    | MA157A        | DIODE                   | MA3X157A    |
| D9101    | ERZV14D471    | VARISTOR                | ▲           |
| D9601    | B0HASR000006  | DIODE                   |             |
| D9604    | MA158         | DIODE                   |             |
| D9605    | MA2Z72000L    | DIODE                   |             |
| D9606    | MA158         | DIODE                   |             |
| D9607    | MA2Z72000L    | DIODE                   |             |
| D9608    | MA158         | DIODE                   |             |
| D9609    | MA2Z72000L    | DIODE                   |             |
| D9611    | MA158         | DIODE                   |             |
| D9612    | MA2Z72000L    | DIODE                   |             |
| D9616    | D1FL40F4063   | DIODE                   | BOEHP000001 |
| D9617    | MA2Z72000L    | DIODE                   |             |
| D9618    | MA2Z72000L    | DIODE                   |             |
| D9619    | MA2Z72000L    | DIODE                   |             |
| D9620    | MA2Z72000L    | DIODE                   |             |
| D9621    | MA2Z72000L    | DIODE                   |             |
| D9622    | D1FL40F4063   | DIODE                   | BOEHP000001 |
| D9623    | D1FL40F4063   | DIODE                   | BOEHP000001 |
| D9624    | MA2Z72000L    | DIODE                   |             |
| D9625    | MA2Z72000L    | DIODE                   |             |
| D9626    | MA2Z72000L    | DIODE                   |             |
| D9627    | MA2Z72000L    | DIODE                   |             |
| D9628    | MA2Z72000L    | DIODE                   |             |
| D9629    | D1FL40F4063   | DIODE                   | BOEHP000001 |
|          |               | [ COILS ]               |             |
| L1002    | J0JJ0C0000022 | EMI FILTER              |             |
| L1003    | J0JJ0C0000022 | EMI FILTER              |             |
| L1004    | J0JJ0C0000022 | EMI FILTER              |             |
| L1005    | J0JJ0C0000022 | EMI FILTER              |             |
| L1006    | J0JJ0C0000022 | EMI FILTER              |             |
| L1007    | ELJFA150JF    | COIL                    |             |
| L1008    | J0JJ0C0000022 | EMI FILTER              |             |
| L1009    | J0JJ0C0000022 | EMI FILTER              |             |
| L1010    | J0JJ0C0000022 | EMI FILTER              |             |
| L1011    | J0JJ0C0000022 | EMI FILTER              |             |
| L1012    | J0JJ0C0000022 | EMI FILTER              |             |
| L1013    | ELJFA150JF    | COIL                    |             |
| L1014    | ELJFA150JF    | COIL                    |             |
| L1015    | ELJFA150JF    | COIL                    |             |
| L1016    | J0JCC0000168  | FILTER                  |             |
| L1017    | J0JCC0000168  | FILTER                  |             |
| L1018    | J0JCC0000168  | FILTER                  |             |
| L1019    | J0JCC0000168  | FILTER                  |             |
| L1020    | J0JCC0000168  | FILTER                  |             |
| L1021    | J0JJ0C0000022 | EMI FILTER              |             |
| L1022    | J0JCC0000168  | FILTER                  |             |
| L1023    | J0JCC0000168  | FILTER                  |             |
| L1024    | J0JJ0C0000022 | EMI FILTER              |             |
| L1025    | J0JJ0C0000022 | EMI FILTER              |             |
| L1026    | J0JJ0C0000022 | EMI FILTER              |             |
| L1027    | J0JCC0000168  | FILTER                  |             |
| L1028    | J0JJ0C0000168 | FILTER                  |             |
| L1029    | J0JJ0C0000022 | EMI FILTER              |             |
| L1032    | J0JJ0C0000022 | EMI FILTER              |             |
| L1034    | J0JJ0C0000022 | EMI FILTER              |             |
| L1035    | ELJFA470JF    | COIL                    |             |

| Ref. No. | Part No.     | Part Name & Description | Remarks   |
|----------|--------------|-------------------------|-----------|
| L1037    | J0JJC0000022 | EMI FILTER              |           |
| L1038    | J0JJC0000022 | EMI FILTER              |           |
| L1039    | ELJFA6R8JF   | COIL                    |           |
| L1040    | ELJFA470JF   | COIL                    |           |
| L1041    | J0JJC0000022 | EMI FILTER              |           |
| L1042    | J0JJC0000022 | EMI FILTER              |           |
| L1043    | J0JJC0000022 | EMI FILTER              |           |
| L1044    | J0JJC0000022 | EMI FILTER              |           |
| L1045    | J0JJC0000022 | EMI FILTER              |           |
| L1046    | J0JJC0000022 | EMI FILTER              |           |
| L1048    | J0JJC0000022 | EMI FILTER              |           |
| L1049    | J0JJC0000022 | EMI FILTER              |           |
| L1050    | J0JJC0000022 | EMI FILTER              |           |
| L1051    | J0JJC0000022 | EMI FILTER              |           |
| L1053    | J0JJC0000022 | EMI FILTER              |           |
| L1055    | J0JJC0000022 | EMI FILTER              |           |
| L1056    | J0ZZB0000063 | FILTER                  |           |
| L1057    | J0ZZB0000063 | FILTER                  |           |
| L1058    | J0ZZB0000063 | FILTER                  |           |
| L1059    | J0ZZB0000063 | FILTER                  |           |
| L1060    | J0ZZB0000063 | FILTER                  |           |
| L1061    | J0ZZB0000063 | FILTER                  |           |
| L1062    | J0ZZB0000063 | FILTER                  |           |
| L1063    | J0ZZB0000063 | FILTER                  |           |
| L1103    | J0JJC0000022 | EMI FILTER              |           |
| L1104    | J0JJC0000022 | EMI FILTER              |           |
| L1105    | J0JJC0000022 | EMI FILTER              |           |
| L1111    | J0MAB0000176 | COIL                    |           |
| L1112    | J0MAB0000176 | COIL                    |           |
| L1113    | J0MAB0000176 | COIL                    |           |
| L1114    | J0MAB0000176 | COIL                    |           |
| L1117    | J0JJC0000022 | EMI FILTER              |           |
| L1120    | J0JJC0000022 | EMI FILTER              |           |
| L1122    | J0JJC0000022 | EMI FILTER              |           |
| L1123    | J0JJC0000022 | EMI FILTER              |           |
| L1124    | J0JJC0000022 | EMI FILTER              |           |
| L1125    | J0JJC0000022 | EMI FILTER              |           |
| L1126    | G1C330MA0077 | COIL                    |           |
| L1127    | G1C330MA0077 | COIL                    |           |
| L1128    | J0JJC0000022 | EMI FILTER              |           |
| L1129    | J0JJC0000022 | EMI FILTER              |           |
| L3401    | J0JJC0000022 | EMI FILTER              | PT-AE700E |
| L3402    | J0JJC0000022 | EMI FILTER              | PT-AE700E |

## [RESISTORS]

|       |             |                     |              |
|-------|-------------|---------------------|--------------|
| R1001 | ERJ6GEYJ750 | M 75 OHM, J, 1/10W  |              |
| R1002 | ERJ6ENF1801 | M 1.8KOHM, 1/10W    |              |
| R1003 | ERJ3GEYJ272 | M 2.7KOHM, J, 1/16W |              |
| R1004 | ERJ3GEYJ473 | M 47K OHM, J, 1/16W |              |
| R1005 | ERJ6ENF75R0 | M 75 OHM, 1/10W     |              |
| R1006 | ERJ6ENF75R0 | M 75 OHM, 1/10W     |              |
| R1007 | ERJ3GEYJ472 | M 4.7KOHM, J, 1/16W |              |
| R1008 | ERJ6ENF75R0 | M 75 OHM, 1/10W     |              |
| R1009 | ERJ3GEYJ472 | M 4.7KOHM, J, 1/16W |              |
| R1010 | ERJ3GEYJ562 | M 5.6KOHM, J, 1/16W |              |
| R1011 | ERJ3GEYJ472 | M 4.7KOHM, J, 1/16W |              |
| R1012 | ERJ3GEYJ472 | M 4.7KOHM, J, 1/16W |              |
| R1013 | ERJ3GEYJ560 | M 56 OHM, J, 1/16W  |              |
| R1014 | ERJ3GEYJ562 | M 5.6KOHM, J, 1/16W |              |
| R1015 | ERJ3GEYJ560 | M 56 OHM, J, 1/16W  |              |
| R1017 | ERJ6GEYJ750 | M 75 OHM, J, 1/10W  |              |
| R1018 | ERJ3GEYJ101 | M 100 OHM, J, 1/16W | D0GB101JA002 |
| R1019 | ERJ3GEYJ104 | M 100KOHM, J, 1/16W |              |
| R1020 | ERJ3GEYJ471 | M 470 OHM, J, 1/16W |              |
| R1021 | ERJ3GEYJ101 | M 100 OHM, J, 1/16W | D0GB101JA002 |
| R1022 | ERJ3GEYJ472 | M 4.7KOHM, J, 1/16W |              |
| R1023 | ERJ3GEYJ562 | M 5.6KOHM, J, 1/16W |              |
| R1024 | ERJ3GEYJ560 | M 56 OHM, J, 1/16W  |              |
| R1025 | ERJ3GEYJ560 | M 56 OHM, J, 1/16W  |              |
| R1026 | ERJ6GEYJ750 | M 75 OHM, J, 1/10W  |              |
| R1027 | ERJ3GEYJ560 | M 56 OHM, J, 1/16W  |              |
| R1028 | ERJ3GEYJ560 | M 56 OHM, J, 1/16W  |              |

| Ref. No. | Part No.    | Part Name & Description | Remarks      |
|----------|-------------|-------------------------|--------------|
| R1029    | ERJ6ENF75R0 | M 75 OHM, 1/10W         |              |
| R1030    | ERJ3GEYJ151 | M 150 OHM, J, 1/16W     |              |
| R1031    | ERJ3GEYJ472 | M 4.7KOHM, J, 1/16W     |              |
| R1032    | ERJ3GEYJ562 | M 5.6KOHM, J, 1/16W     |              |
| R1033    | ERJ3GEYJ560 | M 56 OHM, J, 1/16W      |              |
| R1034    | ERJ3GEYJ151 | M 150 OHM, J, 1/16W     |              |
| R1035    | ERJ2GE0R00  | M 0 OHM, 0.063W         |              |
| R1036    | ERJ6ENF75R0 | M 75 OHM, 1/10W         |              |
| R1037    | ERJ3GEYJ221 | M 220 OHM, J, 1/16W     |              |
| R1038    | ERJ3GEYJ103 | M 10K OHM, J, 1/16W     |              |
| R1039    | ERJ3GEYJ472 | M 4.7KOHM, J, 1/16W     |              |
| R1040    | ERJ3GEYJ562 | M 5.6KOHM, J, 1/16W     |              |
| R1041    | ERJ3GEYJ560 | M 56 OHM, J, 1/16W      |              |
| R1042    | ERJ3GEYJ103 | M 10K OHM, J, 1/16W     |              |
| R1043    | ERJ3GEYJ103 | M 10K OHM, J, 1/16W     |              |
| R1044    | ERJ3GEYJ472 | M 4.7KOHM, J, 1/16W     |              |
| R1045    | ERJ6ENF75R0 | M 75 OHM, 1/10W         |              |
| R1046    | ERJ3GEYJ560 | M 56 OHM, J, 1/16W      |              |
| R1047    | ERJ3GEYJ221 | M 220 OHM, J, 1/16W     |              |
| R1048    | ERJ3GEYJ682 | M 6.8KOHM, J, 1/16W     |              |
| R1049    | ERJ3GEYJ101 | M 100 OHM, J, 1/16W     |              |
| R1050    | ERJ3GEYJ332 | M 3.3KOHM, J, 1/16W     |              |
| R1051    | ERJ3GEYJ821 | M 820 OHM, J, 1/16W     |              |
| R1052    | ERJ3GEYJ471 | M 470 OHM, J, 1/16W     |              |
| R1053    | ERJ3GEY0R00 | M 0 OHM, 1/16W          |              |
| R1054    | ERJ3GEYJ221 | M 220 OHM, J, 1/16W     |              |
| R1055    | ERJ3GEYJ471 | M 470 OHM, J, 1/16W     |              |
| R1056    | ERJ3GEYJ180 | M 18 OHM, J, 1/16W      |              |
| R1057    | ERJ3GEYJ180 | M 18 OHM, J, 1/16W      |              |
| R1058    | ERJ3GEYJ101 | M 100 OHM, J, 1/16W     | D0GB101JA002 |
| R1059    | ERJ3GEYJ104 | M 100KOHM, J, 1/16W     |              |
| R1061    | ERJ3GEYJ101 | M 100 OHM, J, 1/16W     | D0GB101JA002 |
| R1062    | ERJ3GEYJ101 | M 100 OHM, J, 1/16W     | D0GB101JA002 |
| R1063    | ERJ3GEYJ101 | M 100 OHM, J, 1/16W     | D0GB101JA002 |
| R1064    | ERJ3GEYJ101 | M 100 OHM, J, 1/16W     | D0GB101JA002 |
| R1065    | ERJ3GEYJ101 | M 100 OHM, J, 1/16W     | D0GB101JA002 |
| R1066    | ERJ3GEYJ561 | M 560 OHM, J, 1/16W     |              |
| R1067    | ERJ3GEYJ561 | M 560 OHM, J, 1/16W     |              |
| R1068    | ERJ3GEYJ561 | M 560 OHM, J, 1/16W     |              |
| R1069    | ERJ3GEYJ681 | M 680 OHM, J, 1/16W     |              |
| R1070    | ERJ3GEYJ681 | M 680 OHM, J, 1/16W     |              |
| R1071    | ERJ3GEYJ220 | M 22 OHM, J, 1/16W      |              |
| R1072    | ERJ3GEYJ681 | M 680 OHM, J, 1/16W     |              |
| R1073    | ERJ3GEYJ103 | M 10K OHM, J, 1/16W     |              |
| R1074    | ERJ3GEYJ103 | M 10K OHM, J, 1/16W     |              |
| R1076    | ERJ3GEYJ103 | M 10K OHM, J, 1/16W     |              |
| R1077    | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     |              |
| R1078    | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     |              |
| R1079    | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     |              |
| R1080    | ERJ3GEYJ222 | M 2.2KOHM, J, 1/16W     |              |
| R1081    | ERJ3GEYJ222 | M 2.2KOHM, J, 1/16W     |              |
| R1082    | ERJ3GEYJ222 | M 2.2KOHM, J, 1/16W     |              |
| R1083    | ERJ3GEY0R00 | M 0 OHM, 1/16W          |              |
| R1084    | ERJ3GEY0R00 | M 0 OHM, 1/16W          |              |
| R1085    | ERJ3GEY0R00 | M 0 OHM, 1/16W          |              |
| R1087    | ERJ3GEYJ180 | M 18 OHM, J, 1/16W      |              |
| R1088    | ERJ3GEYJ180 | M 18 OHM, J, 1/16W      |              |
| R1089    | ERJ3GEYJ180 | M 18 OHM, J, 1/16W      |              |
| R1090    | ERJ2GEJ103  | M 10K OHM, 0.063W       |              |
| R1091    | ERJ2GEJ103  | M 10K OHM, 0.063W       |              |
| R1102    | ERJ3EKF1371 | M 1.37KOHM, 0.063W      |              |
| R1105    | ERJ6ENF2001 | M 2KOHM, 1/10W          |              |
| R1106    | ERJ3GEYJ151 | M 150 OHM, J, 1/16W     |              |
| R1107    | ERJ3GEYJ471 | M 470 OHM, J, 1/16W     |              |
| R1108    | ERJ3GEYJ151 | M 150 OHM, J, 1/16W     |              |
| R1109    | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     |              |
| R1111    | ERJ3EKF1741 | M 1.74KOHM, 0.063W      |              |
| R1113    | ERJ6ENF2001 | M 2KOHM, 1/10W          |              |
| R1114    | ERJ2GEJ220  | M 22 OHM, 0.063W        |              |
| R1115    | ERJ2GEJ562  | M 5.6KOHM, 0.063W       |              |
| R1116    | EXB28V220J  | RESISTOR ARRAY          |              |
| R1117    | ERJ2GEJ220  | M 22 OHM, 0.063W        |              |
| R1118    | ERJ2GEJ220  | M 22 OHM, 0.063W        |              |

| Ref. No. | Part No.    | Part Name & Description | Remarks      |
|----------|-------------|-------------------------|--------------|
| R1119    | ERJ3GEYJ220 | M 22 OHM, J, 1/16W      |              |
| R1120    | ERJ3GEYJ560 | M 56 OHM, J, 1/16W      |              |
| R1121    | ERJ3GEYJ101 | M 100 OHM, J, 1/16W     | D0GB101JA002 |
| R1122    | ERJ6ENF4700 | M 470 OHM, 1/10W        |              |
| R1125    | ERJ2GEJ562  | M 5.6KOHM, 0.063W       |              |
| R1126    | ERJ3GEYJ220 | M 22 OHM, J, 1/16W      |              |
| R1127    | EXB28V220J  | RESISTOR ARRAY          |              |
| R1129    | ERJ3GEYJ330 | M 33 OHM, J, 1/16W      |              |
| R1133    | ERJ2GEJ333  | M 33K OHM, 0.063W       |              |
| R1134    | EXB28V220J  | RESISTOR ARRAY          |              |
| R1136    | ERJ3GEYJ560 | M 56 OHM, J, 1/16W      |              |
| R1138    | EXB28V220J  | RESISTOR ARRAY          |              |
| R1139    | ERJ2GEJ330  | M 33 OHM, 0.063W        |              |
| R1140    | ERJ3GEYJ330 | M 33 OHM, J, 1/16W      |              |
| R1141    | ERJ3GEYJ103 | M 10K OHM, J, 1/16W     |              |
| R1142    | ERJ3GEYJ682 | M 6.8KOHM, J, 1/16W     |              |
| R1143    | ERJ6ENF2001 | M 2KOHM, 1/10W          |              |
| R1145    | EXB28V220J  | RESISTOR ARRAY          |              |
| R1146    | EXB28V220J  | RESISTOR ARRAY          |              |
| R1147    | ERJ2GEJ220  | M 22 OHM, 0.063W        |              |
| R1149    | EXB28V220J  | RESISTOR ARRAY          |              |
| R1150    | ERJ6ENF1801 | M 1.8KOHM, 1/10W        |              |
| R1151    | ERJ6GEYJ222 | M 2.2KOHM, J, 1/10W     |              |
| R1152    | ERJ3GEYJ822 | M 8.2KOHM, J, 1/16W     |              |
| R1153    | ERJ3GEYJ101 | M 100 OHM, J, 1/16W     | D0GB101JA002 |
| R1154    | ERJ3GEYJ560 | M 56 OHM, J, 1/16W      |              |
| R1156    | ERJ3GEYJ560 | M 56 OHM, J, 1/16W      |              |
| R1157    | ERJ2GEJ562  | M 5.6KOHM, 0.063W       |              |
| R1158    | ERJ2GEJ562  | M 5.6KOHM, 0.063W       |              |
| R1159    | ERJ6ENF2001 | M 2KOHM, 1/10W          |              |
| R1160    | ERJ6ENF1801 | M 1.8KOHM, 1/10W        |              |
| R1161    | ERJ6ENF4700 | M 470 OHM, 1/10W        |              |
| R1162    | ERJ3GEYJ101 | M 100 OHM, J, 1/16W     | D0GB101JA002 |
| R1163    | ERJ3GEYJ101 | M 100 OHM, J, 1/16W     | D0GB101JA002 |
| R1164    | ERJ6ENF4700 | M 470 OHM, 1/10W        |              |
| R1165    | ERJ3GEYJ103 | M 10K OHM, J, 1/16W     |              |
| R1166    | ERJ3GEYJ682 | M 6.8KOHM, J, 1/16W     |              |
| R1255    | ERJ2GE0R00  | M 0 OHM, 0.063W         |              |
| R1256    | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     |              |
| R1257    | EXB28V560J  | RESISTOR ARRAY          |              |
| R1258    | EXB28V560J  | RESISTOR ARRAY          |              |
| R1259    | ERJ2GE0R00  | M 0 OHM, 0.063W         |              |
| R1260    | ERJ2GE0R00  | M 0 OHM, 0.063W         |              |
| R1262    | ERJ2GEY0R00 | M 0 OHM, 1/16W          |              |
| R1264    | ERJ2GE0R00  | M 0 OHM, 0.063W         |              |
| R1265    | ERJ3GEYJ102 | M 1K OHM, J, 1/16W      |              |
| R1267    | ERJ2GE0R00  | M 0 OHM, 0.063W         |              |
| R1268    | ERJ2GE0R00  | M 0 OHM, 0.063W         |              |
| R1269    | ERJ2GE0R00  | M 0 OHM, 0.063W         |              |
| R1270    | ERJ3GEYJ220 | M 22 OHM, J, 1/16W      |              |
| R1272    | ERJ3GEYJ102 | M 1K OHM, J, 1/16W      |              |
| R1273    | ERJ3GEYJ220 | M 22 OHM, J, 1/16W      |              |
| R1274    | EXB28V560J  | RESISTOR ARRAY          |              |
| R1275    | EXB28V560J  | RESISTOR ARRAY          |              |
| R1276    | EXB28V560J  | RESISTOR ARRAY          |              |
| R1277    | EXB28V560J  | RESISTOR ARRAY          |              |
| R1278    | EXB28V560J  | RESISTOR ARRAY          |              |
| R1279    | EXB28V560J  | RESISTOR ARRAY          |              |
| R1280    | EXB28V560J  | RESISTOR ARRAY          |              |
| R1281    | EXB28V560J  | RESISTOR ARRAY          |              |
| R1282    | EXB28V560J  | RESISTOR ARRAY          |              |
| R1283    | EXB28V560J  | RESISTOR ARRAY          |              |
| R1284    | ERJ2GEJ560  | M 56 OHM, 0.063W        |              |
| R1285    | ERJ2GEJ3R9X | M 3.9 OHM, 0.063W       |              |
| R1286    | ERJ2GEJ3R9X | M 3.9 OHM, 0.063W       |              |
| R1287    | ERJ2GEJ3R9X | M 3.9 OHM, 0.063W       |              |
| R1288    | ERJ2GEJ3R9X | M 3.9 OHM, 0.063W       |              |
| R1289    | ERJ2GEJ3R9X | M 3.9 OHM, 0.063W       |              |
| R1290    | ERJ2GEJ3R9X | M 3.9 OHM, 0.063W       |              |
| R1291    | ERJ2GEJ3R9X | M 3.9 OHM, 0.063W       |              |
| R1292    | ERJ2GEJ3R9X | M 3.9 OHM, 0.063W       |              |
| R1293    | ERJ2GE0R00  | M 0 OHM, 0.063W         |              |
| R1295    | ERJ2GEJ101  | M 100 OHM, 0.063W       |              |

| Ref. No. | Part No.    | Part Name & Description | Remarks |
|----------|-------------|-------------------------|---------|
| R1298    | ERJ2GEJ472  | M 4.7KOHM, 0.063W       |         |
| R1299    | ERJ2GEJ472  | M 4.7KOHM, 0.063W       |         |
| R1320    | ERJ2GEJ472  | M 4.7KOHM, 0.063W       |         |
| R1321    | ERJ2GEJ472  | M 4.7KOHM, 0.063W       |         |
| R1322    | ERJ2GEJ101  | M 100 OHM, 0.063W       |         |
| R1325    | ERJ2GEJ103  | M 10K OHM, 0.063W       |         |
| R1326    | ERJ2GEJ472  | M 4.7KOHM, 0.063W       |         |
| R1327    | ERJ2GEJ472  | M 4.7KOHM, 0.063W       |         |
| R1328    | ERJ2GEJ221  | M 220 OHM, 0.063W       |         |
| R1329    | ERJ2GEJ272  | M 2.7KOHM, 0.063W       |         |
| R1332    | ERJ2GEJ103  | M 10K OHM, 0.063W       |         |
| R1333    | ERJ2GE0R00  | M 0 OHM, 0.063W         |         |
| R1339    | ERJ3GEYJ220 | M 22 OHM, J, 1/16W      |         |
| R1346    | ERJ2GEJ102  | M 1K OHM, 0.063W        |         |
| R1347    | ERJ2GEJ103  | M 10K OHM, 0.063W       |         |
| R1348    | ERJ2GEJ101  | M 100 OHM, 0.063W       |         |
| R1353    | ERJ2GEJ221  | M 220 OHM, 0.063W       |         |
| R1355    | ERJ2GEJ103  | M 10K OHM, 0.063W       |         |
| R1356    | ERJ1TYJ1R6U | M 1.6 OHM, J, 1W        |         |
| R1357    | ERJ1TYJ1R6U | M 1.6 OHM, J, 1W        |         |
| R1363    | ERJ2GEJ562  | M 5.6KOHM, 0.063W       |         |
| R1364    | ERJ2GEJ103  | M 10K OHM, 0.063W       |         |
| R1365    | ERJ6GEYJ100 | M 10 OHM, J, 1/10W      |         |
| R1367    | ERJ2GEJ562  | M 5.6KOHM, 0.063W       |         |
| R1368    | EXB28V220J  | RESISTOR ARRAY          |         |
| R1370    | ERJ6GEYJ100 | M 10 OHM, J, 1/10W      |         |
| R1373    | EXB28V220J  | RESISTOR ARRAY          |         |
| R1375    | ERJ6GEYJ560 | M 56 OHM, J, 1/10W      |         |
| R1376    | ERJ2GE0R00  | M 0 OHM, 0.063W         |         |
| R1379    | ERJ2GEJ220  | M 22 OHM, 0.063W        |         |
| R1381    | ERJ6ENF2202 | M 2.2KOHM, 1/10W        |         |
| R1383    | ERJ3GEYJ102 | M 1K OHM, J, 1/16W      |         |
| R1384    | EXB28V560J  | RESISTOR ARRAY          |         |
| R1388    | ERJ2GEJ560  | M 56 OHM, 0.063W        |         |
| R1389    | ERJ2GEJ333  | M 33K OHM, 0.063W       |         |
| R1390    | EXB28V560J  | RESISTOR ARRAY          |         |
| R1391    | ERJ2GEJ472  | M 4.7KOHM, 0.063W       |         |
| R1392    | ERJ2GEJ331  | M 330 OHM, 0.063W       |         |
| R1393    | ERJ2GEJ101  | M 100 OHM, 0.063W       |         |
| R1394    | EXB28V560J  | RESISTOR ARRAY          |         |
| R1396    | ERJ2GEJ101  | M 100 OHM, 0.063W       |         |
| R1397    | EXB28V560J  | RESISTOR ARRAY          |         |
| R1398    | EXB28V560J  | RESISTOR ARRAY          |         |
| R1399    | EXB28V102J  | RESISTOR ARRAY          |         |
| R1400    | EXB28V220J  | RESISTOR ARRAY          |         |
| R1401    | EXB28V560J  | RESISTOR ARRAY          |         |
| R1402    | ERJ2GEJ101  | M 100 OHM, 0.063W       |         |
| R1403    | EXB28V560J  | RESISTOR ARRAY          |         |
| R1404    | EXB28V560J  | RESISTOR ARRAY          |         |
| R1405    | EXB28V560J  | RESISTOR ARRAY          |         |
| R1406    | ERJ2GEJ560  | M 56 OHM, 0.063W        |         |
| R1407    | ERJ2GEJ560  | M 56 OHM, 0.063W        |         |
| R1408    | EXB28V560J  | RESISTOR ARRAY          |         |
| R1409    | EXB28V560J  | RESISTOR ARRAY          |         |
| R1410    | EXB28V560J  | RESISTOR ARRAY          |         |
| R1411    | EXB28V560J  | RESISTOR ARRAY          |         |
| R1412    | ERJ2GEJ560  | M 56 OHM, 0.063W        |         |
| R1413    | ERJ2GEJ560  | M 56 OHM, 0.063W        |         |
| R1414    | ERJ3GEYJ102 | M 1K OHM, J, 1/16W      |         |
| R1415    | ERJ6ENF2202 | M 2.2KOHM, 1/10W        |         |
| R1416    | ERJ2GEJ102  | M 1K OHM, 0.063W        |         |
| R1417    | ERJ2GEJ103  | M 10K OHM, 0.063W       |         |
| R1418    | ERJ2GEJ562  | M 5.6KOHM, 0.063W       |         |
| R1419    | ERJ6GEY0R00 | M 0 OHM, J, 1/10W       |         |
| R1420    | ERJ6ENF1801 | M 1.8KOHM, 1/10W        |         |
| R1421    | ERJ6GEY0R00 | M 0 OHM, J, 1/10W       |         |
| R1422    | ERJ6ENF1801 | M 1.8KOHM, 1/10W        |         |
| R1423    | ERJ6GEY0R00 | M 0 OHM, J, 1/10W       |         |
| R1424    | ERJ6ENF1801 | M 1.8KOHM, 1/10W        |         |
| R1425    | ERJ6ENF3301 | M 3.3KOHM, 1/10W        |         |
| R1426    | ERJ6ENF3301 | M 3.3KOHM, 1/10W        |         |
| R1427    | ERJ6ENF3301 | M 3.3KOHM, 1/10W        |         |
| R1429    | ERJ3GEYJ220 | M 22 OHM, J, 1/16W      |         |

| Ref. No. | Part No.     | Part Name & Description | Remarks      |
|----------|--------------|-------------------------|--------------|
| R1430    | ERJ3GEYJ101  | M 100 OHM, J,1/16W      | D0GB101JA002 |
| R1432    | ERJ3GEYJ220  | M 22 OHM, J,1/16W       |              |
| R1433    | ERJ3GEYJ101  | M 100 OHM, J,1/16W      | D0GB101JA002 |
| R1435    | ERJ3GEYJ220  | M 22 OHM, J,1/16W       |              |
| R1436    | ERJ3GEYJ101  | M 100 OHM, J,1/16W      | D0GB101JA002 |
| R1437    | ERJ2GE0R00   | M 0 OHM, 0.063W         |              |
| R1438    | ERJ2GE0R00   | M 0 OHM, 0.063W         |              |
| R1439    | ERJ2GE0R00   | M 0 OHM, 0.063W         |              |
| R1444    | ERJ2GEJ103   | M 10K OHM, 0.063W       |              |
| R1447    | ERJ2GEJ103   | M 10K OHM, 0.063W       |              |
| R1448    | ERJ2GEJ103   | M 10K OHM, 0.063W       |              |
| R1460    | ERJ6GEYJ122  | M 1.2KOHM, J,1/10W      |              |
| R1461    | ERJ6ENF1002  | M 10KOHM, 1/10W         |              |
| R1462    | ERJ6ENF1002  | M 10KOHM, 1/10W         |              |
| R1505    | ERJ3GEYJ104  | M 100KOHM, J,1/16W      |              |
| R1506    | ERJ3GEYJ104  | M 100KOHM, J,1/16W      |              |
| R1507    | ERJ3GEYJ104  | M 100KOHM, J,1/16W      |              |
| R1508    | ERJ3GEYJ682  | M 6.8KOHM, J,1/16W      |              |
| R1509    | ERJ3GEYJ682  | M 6.8KOHM, J,1/16W      |              |
| R1510    | ERJ3GEYJ103  | M 10K OHM, J,1/16W      |              |
| R1511    | ERJ3GEYJ103  | M 10K OHM, J,1/16W      |              |
| R1512    | ERJ6ENF1801  | M 1.8KOHM, 1/10W        |              |
| R1513    | ERJ6ENF4700  | M 470 OHM, 1/10W        |              |
| R1515    | ERJ3GEYJ220  | M 22 OHM, J,1/16W       |              |
| R1516    | ERJ3GEYJ220  | M 22 OHM, J,1/16W       |              |
| R1517    | ERJ2GEJ102   | M 1K OHM, 0.063W        |              |
| R1518    | ERJ2GE0R00   | M 0 OHM, 0.063W         |              |
| R1519    | ERJ2GE0R00   | M 0 OHM, 0.063W         |              |
| R1520    | ERJ2GEJ100   | M 10 OHM, 0.063W        |              |
| R1521    | ERJ2GEJ100   | M 10 OHM, 0.063W        |              |
| R1522    | ERJ2GEJ100   | M 10 OHM, 0.063W        |              |
| R1523    | EXB28V220J   | RESISTOR ARRAY          |              |
| R1525    | ERJ2GE0R00   | M 0 OHM, 0.063W         |              |
| R1527    | ERJ3EKF1473  | M 147KOHM, 0.063W       |              |
| R1528    | ERJ3EKF1002  | M 10KOHM, 1/16W         |              |
| R1530    | ERJ2GEJ103   | M 10K OHM, 0.063W       |              |
| R1531    | EXB28V103J   | RESISTOR ARRAY          |              |
| R1532    | EXB28V103J   | RESISTOR ARRAY          |              |
| R1533    | EXB28V103J   | RESISTOR ARRAY          |              |
| R1534    | EXB28V103J   | RESISTOR ARRAY          |              |
| R1535    | EXB28V103J   | RESISTOR ARRAY          |              |
| R1536    | ERJ3GEYJ220  | M 22 OHM, J,1/16W       |              |
| R1537    | ERJ3GEYJ220  | M 22 OHM, J,1/16W       |              |
| R1539    | ERJ3GEYJ0R00 | M 0 OHM, 1/16W          |              |
| R1544    | ERJ3GEYJ330  | M 33 OHM, J,1/16W       |              |
| R1552    | ERJ3GEYJ222  | M 2.2KOHM, J,1/16W      |              |
| R1553    | ERJ3GEYJ103  | M 10K OHM, J,1/16W      |              |
| R1557    | ERJ3GEY0R00  | M 0 OHM, 1/16W          |              |
| R1564    | ERJ2GE0R00   | M 0 OHM, 0.063W         |              |
| R1566    | ERJ3GEYJ0R00 | M 0 OHM, 1/16W          |              |
| R1569    | ERJ3GEYJ0R00 | M 0 OHM, 1/16W          |              |
| R1570    | ERJ2GE0R00   | M 0 OHM, 0.063W         |              |
| R1572    | ERJ3GEY0R00  | M 0 OHM, 1/16W          |              |
| R1573    | ERJ3GEY0R00  | M 0 OHM, 1/16W          |              |
| R1574    | ERJ3GEY0R00  | M 0 OHM, 1/16W          |              |
| R1575    | ERJ2GE0R00   | M 0 OHM, 0.063W         |              |
| R1576    | ERJ3GEY0R00  | M 0 OHM, 1/16W          |              |
| R1577    | ERJ2GE0R00   | M 0 OHM, 0.063W         |              |
| R1578    | ERJ2GEJ103   | M 10K OHM, 0.063W       |              |
| R1579    | ERJ2GEJ103   | M 10K OHM, 0.063W       |              |
| R1591    | ERJ3EKF1000  | M 100 OHM, 1/16W        |              |
| R1592    | ERJ3EKF1000  | M 100 OHM, 1/16W        |              |
| R1593    | ERJ3EKF1000  | M 100 OHM, 1/16W        |              |
| R1594    | ERJ3EKF1000  | M 100 OHM, 1/16W        |              |
| R1595    | ERJ3EKF1000  | M 100 OHM, 1/16W        |              |
| R1596    | ERJ3EKF1000  | M 100 OHM, 1/16W        |              |
| R1597    | ERJ3EKF1000  | M 100 OHM, 1/16W        |              |
| R1598    | ERJ3EKF1000  | M 100 OHM, 1/16W        |              |
| R1600    | ERJ3GEYJ470  | M 47 OHM, J,1/16W       |              |
| R1601    | EXB28V560J   | RESISTOR ARRAY          |              |
| R1602    | EXB28V560J   | RESISTOR ARRAY          |              |
| R1603    | ERJ3GEYJ220  | M 22 OHM, J,1/16W       |              |
| R1604    | ERJ3GEYJ220  | M 22 OHM, J,1/16W       |              |

| Ref. No. | Part No.    | Part Name & Description | Remarks      |
|----------|-------------|-------------------------|--------------|
| R1605    | ERJ3GEY0R00 | M 0 OHM, 1/16W          |              |
| R1606    | ERJ3GEYJ220 | M 22 OHM, J,1/16W       |              |
| R1609    | EXB28V560J  | RESISTOR ARRAY          |              |
| R1610    | EXB28V560J  | RESISTOR ARRAY          |              |
| R1611    | ERJ3GEYJ123 | M 12K OHM, J,1/16W      |              |
| R1612    | ERJ2GE0R00  | M 0 OHM, 0.063W         |              |
| R1613    | ERJ3GEYJ104 | M 100KOHM, J,1/16W      |              |
| R1614    | ERJ2GEJ472  | M 4.7KOHM, 0.063W       |              |
| R1615    | ERJ2GE0R00  | M 0 OHM, 0.063W         |              |
| R1616    | ERJ2GEJ472  | M 4.7KOHM, 0.063W       |              |
| R1617    | ERJ3GEYJ473 | M 47K OHM, J,1/16W      |              |
| R1619    | ERJ3GEYJ104 | M 100KOHM, J,1/16W      |              |
| R1620    | ERJ3GEYJ104 | M 100KOHM, J,1/16W      |              |
| R1622    | ERJ2GEJ472  | M 4.7KOHM, 0.063W       |              |
| R1623    | ERJ2GEJ472  | M 4.7KOHM, 0.063W       |              |
| R1624    | ERJ3EKF5903 | M 590KOHM, 1/16W        |              |
| R1625    | ERJ3GEYJ473 | M 47K OHM, J,1/16W      |              |
| R1626    | ERJ3GEYJ102 | M 1K OHM, J,1/16W       |              |
| R1627    | ERJ2GEJ472  | M 4.7KOHM, 0.063W       |              |
| R1628    | ERJ2GEJ472  | M 4.7KOHM, 0.063W       |              |
| R1629    | ERJ3GEYJ222 | M 2.2KOHM, J,1/16W      |              |
| R1630    | ERJ2GEJ103  | M 10K OHM, 0.063W       |              |
| R1631    | ERJ2GEJ103  | M 10K OHM, 0.063W       |              |
| R1632    | ERJ3GEYJ102 | M 1K OHM, J,1/16W       |              |
| R1633    | ERJ3GEYJ473 | M 47K OHM, J,1/16W      |              |
| R1634    | ERJ6GEYJ473 | M 47KOHM, J,1/10W       |              |
| R1635    | ERJ3GEYJ103 | M 10K OHM, J,1/16W      |              |
| R1636    | ERJ3GEYJ473 | M 47K OHM, J,1/16W      |              |
| R1637    | ERJ3GEYJ473 | M 47K OHM, J,1/16W      |              |
| R1638    | ERJ3GEYJ101 | M 100 OHM, J,1/16W      | D0GB101JA002 |
| R1639    | ERJ6GEYJ101 | M 100 OHM, J,1/10W      |              |
| R1640    | EXB28V102J  | RESISTOR ARRAY          |              |
| R1641    | ERJ3EKF5621 | M 5.62KOHM, 1/16W       |              |
| R1642    | ERJ3EKF5621 | M 5.62KOHM, 1/16W       |              |
| R1643    | ERJ3EKF1101 | M 1.1KOHM, 1/16W        |              |
| R1644    | ERJ3EKF1101 | M 1.1KOHM, 1/16W        |              |
| R1645    | ERJ3EKF1101 | M 1.1KOHM, 1/16W        |              |
| R1646    | ERJ3GEYJ124 | M 120KOHM, J,1/16W      |              |
| R1647    | ERJ3GEYJ124 | M 120KOHM, J,1/16W      |              |
| R1648    | ERJ3GEYJ124 | M 120KOHM, J,1/16W      |              |
| R1649    | ERJ2GEJ220  | M 22 OHM, 0.063W        |              |
| R1650    | ERJ3GEYJ103 | M 10K OHM, J,1/16W      |              |
| R1651    | EXB28V102J  | RESISTOR ARRAY          |              |
| R1652    | EXB38V220J  | RESISTOR ARRAY          |              |
| R1653    | ERJ3GEYJ103 | M 10K OHM, J,1/16W      |              |
| R1654    | ERJ3EKF3923 | M 392KOHM, 1/16W        |              |
| R1655    | ERJ3EKF3923 | M 392KOHM, 1/16W        |              |
| R1656    | ERJ3EKF3923 | M 392KOHM, 1/16W        |              |
| R1657    | ERJ3GEYJ821 | M 820 OHM, J,1/16W      |              |
| R1658    | ERJ6GEYJ105 | M 1MOHM, J,1/10W        |              |
| R1659    | ERJ3GEYJ105 | M 1M OHM, J,1/16W       |              |
| R1660    | ERJ2GEJ472  | M 4.7KOHM, 0.063W       |              |
| R1661    | EXB28V560J  | RESISTOR ARRAY          |              |
| R1662    | EXB38V220J  | RESISTOR ARRAY          |              |
| R1663    | EXB28V560J  | RESISTOR ARRAY          |              |
| R1664    | ERJ3GEYJ220 | M 22 OHM, J,1/16W       |              |
| R1665    | ERJ2GEJ472  | M 4.7KOHM, 0.063W       |              |
| R1666    | ERJ3GEYJ220 | M 22 OHM, J,1/16W       |              |
| R1667    | ERJ3GEYJ510 | M 51 OHM, J,1/16W       |              |
| R1668    | ERJ3GEYJ510 | M 51 OHM, J,1/16W       |              |
| R1669    | ERJ3EKF1002 | M 10KOHM, 1/16W         |              |
| R1670    | ERJ3EKF1002 | M 10KOHM, 1/16W         |              |
| R1671    | ERJ3GEYJ391 | M 390 OHM, J,1/16W      | D0GB391JA002 |
| R1672    | ERJ3EKF1691 | M 1.69KOHM, 1/16W       |              |
| R1673    | ERJ3GEYJ561 | M 560 OHM, J,1/16W      |              |
| R1674    | ERJ3GEYJ102 | M 1K OHM, J,1/16W       |              |
| R1675    | ERJ3GEYJ333 | M 33K OHM, J,1/16W      |              |
| R1676    | ERJ3GEYJ224 | M 220KOHM, J,1/16W      |              |
| R1677    | ERJ3GEYJ102 | M 1K OHM, J,1/16W       |              |
| R1679    | ERJ3GEYJ220 | M 22 OHM, J,1/16W       |              |
| R1680    | ERJ2GEJ103  | M 10K OHM, 0.063W       |              |
| R1681    | ERJ2GEJ103  | M 10K OHM, 0.063W       |              |
| R1682    | ERJ2GEJ103  | M 10K OHM, 0.063W       |              |

| Ref. No. | Part No.    | Part Name & Description | Remarks   |
|----------|-------------|-------------------------|-----------|
| R1683    | ERJ2GEJ103  | M 10K OHM, 0.063W       |           |
| R1684    | ERJ2GEJ103  | M 10K OHM, 0.063W       |           |
| R1687    | ERJ2GEJ220  | M 22 OHM, 0.063W        |           |
| R1688    | ERJ2GEJ220  | M 22 OHM, 0.063W        |           |
| R1689    | ERJ3GEYJ103 | M 10K OHM, J, 1/16W     |           |
| R1692    | ERJ3GEYJ471 | M 470 OHM, J, 1/16W     |           |
| R1693    | ERJ3GEYJ560 | M 56 OHM, J, 1/16W      |           |
| R1696    | ERJ3GEYJ471 | M 470 OHM, J, 1/16W     |           |
| R1697    | ERJ3GEYJ560 | M 56 OHM, J, 1/16W      |           |
| R1705    | ERJ2GEJ220  | M 22 OHM, 0.063W        |           |
| R1706    | ERJ3GEYJ102 | M 1K OHM, J, 1/16W      |           |
| R1707    | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     |           |
| R1708    | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     |           |
| R1709    | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     |           |
| R1710    | ERJ2GEJ101  | M 100 OHM, 0.063W       |           |
| R1711    | ERJ2GEJ101  | M 100 OHM, 0.063W       |           |
| R1712    | ERJ3GEYJ102 | M 1K OHM, J, 1/16W      |           |
| R1713    | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     |           |
| R1714    | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     |           |
| R1715    | EXB28V220J  | RESISTOR ARRAY          |           |
| R1717    | ERJ3GEY0R00 | M 0 OHM, 1/16W          |           |
| R1718    | ERJ2GEJ103  | M 10K OHM, 0.063W       |           |
| R1719    | ERJ2GEJ103  | M 10K OHM, 0.063W       |           |
| R1720    | ERJ2GEJ103  | M 10K OHM, 0.063W       |           |
| R1721    | ERJ2GEJ103  | M 10K OHM, 0.063W       |           |
| R1722    | ERJ2GEJ103  | M 10K OHM, 0.063W       |           |
| R1723    | ERJ2GEJ103  | M 10K OHM, 0.063W       |           |
| R1728    | ERJ2GEJ220  | M 22 OHM, 0.063W        |           |
| R1729    | EXB28V102J  | RESISTOR ARRAY          |           |
| R1730    | EXB28V102J  | RESISTOR ARRAY          |           |
| R1732    | ERJ2GEJ102  | M 1K OHM, 0.063W        |           |
| R1733    | EXB28V560J  | RESISTOR ARRAY          |           |
| R1734    | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     |           |
| R1736    | EXB28V560J  | RESISTOR ARRAY          |           |
| R1738    | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     |           |
| R1739    | ERJ2GEJ220  | M 22 OHM, 0.063W        |           |
| R1740    | ERJ2GEJ220  | M 22 OHM, 0.063W        |           |
| R1741    | ERJ2GEJ220  | M 22 OHM, 0.063W        |           |
| R1742    | ERJ2GEJ220  | M 22 OHM, 0.063W        |           |
| R1743    | ERJ2GEJ220  | M 22 OHM, 0.063W        |           |
| R1744    | ERJ2GEJ220  | M 22 OHM, 0.063W        |           |
| R1745    | ERJ2GEJ220  | M 22 OHM, 0.063W        |           |
| R1746    | ERJ2GEJ220  | M 22 OHM, 0.063W        |           |
| R1747    | ERJ3GEYJ221 | M 220 OHM, J, 1/16W     |           |
| R1748    | ERJ3GEYJ221 | M 220 OHM, J, 1/16W     |           |
| R1749    | EXB28V560J  | RESISTOR ARRAY          |           |
| R1750    | ERJ3GEYJ221 | M 220 OHM, J, 1/16W     |           |
| R1751    | ERJ3GEYJ221 | M 220 OHM, J, 1/16W     |           |
| R1755    | ERJ2GEJ220  | M 22 OHM, 0.063W        |           |
| R1756    | ERJ2GEJ220  | M 22 OHM, 0.063W        |           |
| R2001    | ERJ3EKF5601 | M 5.6KOHM, 1/16W        |           |
| R2002    | ERJ3EKF1501 | M 1.5KOHM, 1/16W        |           |
| R2003    | ERJ3EKF1501 | M 1.5KOHM, 1/16W        |           |
| R2004    | ERJ3EKF2701 | M 2.7KOHM, 1/16W        |           |
| R2005    | ERJ3EKF6801 | M 6.8KOHM, 1/16W        |           |
| R2006    | ERJ3EKF3302 | M 33KOHM, 1/16W         |           |
| R2007    | ERJ3EKF5601 | M 5.6KOHM, 1/16W        |           |
| R2008    | ERJ3EKF1501 | M 1.5KOHM, 1/16W        |           |
| R2009    | ERJ3EKF1501 | M 1.5KOHM, 1/16W        |           |
| R2010    | ERJ3EKF2701 | M 2.7KOHM, 1/16W        |           |
| R2011    | ERJ3EKF6801 | M 6.8KOHM, 1/16W        |           |
| R2012    | ERJ3EKF3302 | M 33KOHM, 1/16W         |           |
| R2013    | ERJ3GEYJ100 | M 10 OHM, J, 1/16W      |           |
| R2014    | ERJ3GEYJ100 | M 10 OHM, J, 1/16W      |           |
| R2015    | EXB38V101J  | RESISTOR ARRAY          |           |
| R2019    | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     |           |
| R2020    | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     |           |
| R2021    | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     |           |
| R2022    | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     |           |
| R2023    | ERJ3GEYJ330 | M 33 OHM, J, 1/16W      |           |
| R2024    | ERJ3GEYJ470 | M 47 OHM, J, 1/16W      |           |
| R2201    | EXB38V220J  | RESISTOR ARRAY          |           |
| R3401    | ERJ6GEYJ750 | M 75 OHM, J, 1/10W      | PT-AE700E |

| Ref. No.     | Part No.     | Part Name & Description | Remarks   |
|--------------|--------------|-------------------------|-----------|
| R3402        | ERJ6GEYJ750  | M 75 OHM, J, 1/10W      | PT-AE700E |
| R3403        | ERJ6ENF75R0  | M 75 OHM, 1/10W         | PT-AE700E |
| R3404        | ERJ3GEYJ472  | M 4.7KOHM, J, 1/16W     | PT-AE700E |
| R3405        | ERJ3GEYJ472  | M 4.7KOHM, J, 1/16W     | PT-AE700E |
| R3406        | ERJ3GEYJ153  | M 15KOHM, J, 1/16W      | PT-AE700E |
| R3409        | ERJ3GEYJ472  | M 4.7KOHM, J, 1/16W     | PT-AE700E |
| R3410        | ERJ3GEYJ562  | M 5.6KOHM, J, 1/16W     | PT-AE700E |
| R3412        | ERJ3GEYJ560  | M 56 OHM, J, 1/16W      | PT-AE700E |
| R3413        | ERJ3GEYJ471  | M 470 OHM, J, 1/16W     | PT-AE700E |
| R3414        | ERJ3GEYJ101  | M 100 OHM, J, 1/16W     | PT-AE700E |
| R3415        | ERJ3GEYJ471  | M 470 OHM, J, 1/16W     | PT-AE700E |
| R3416        | ERJ3GEYJ103  | M 10K OHM, J, 1/16W     | PT-AE700E |
| R3417        | ERJ3GEYJ471  | M 470 OHM, J, 1/16W     | PT-AE700E |
| R3418        | ERJ6ENF75R0  | M 75 OHM, 1/10W         | PT-AE700E |
| R3419        | ERJ6ENF75R0  | M 75 OHM, 1/10W         | PT-AE700E |
| R3420        | ERJ3GEYJ472  | M 4.7KOHM, J, 1/16W     | PT-AE700E |
| R3421        | ERJ3GEYJ562  | M 5.6KOHM, J, 1/16W     | PT-AE700E |
| R3422        | ERJ3GEYJ562  | M 5.6KOHM, J, 1/16W     | PT-AE700E |
| R3423        | ERJ3GEYJ562  | M 5.6KOHM, J, 1/16W     | PT-AE700E |
| R3424        | ERJ3GEYJ560  | M 56 OHM, J, 1/16W      | PT-AE700E |
| R3425        | ERJ3GEYJ560  | M 56 OHM, J, 1/16W      | PT-AE700E |
| R3426        | ERJ3GEYJ471  | M 470 OHM, J, 1/16W     | PT-AE700E |
| R3427        | ERJ3GEYJ560  | M 56 OHM, J, 1/16W      | PT-AE700E |
| R9101        | ERD51TJ474   | C 4.7KOHM, J, 1/2W      | ▲         |
| R9102        | D0A1825JA015 | RESISTOR                | ▲         |
| R9601        | ERX2SJR47    | M0.47 OHM, J, 2W        |           |
| R9630        | ERJ14YJ3R3   | M 3.3 OHM, J, 1/4W      |           |
| R9636        | ERJ14YJ3R3   | M 3.3 OHM, J, 1/4W      |           |
| R9653        | D0XGR22KA001 | RESISTOR                |           |
| [CAPACITORS] |              |                         |           |
| C1001        | EEEHB0J330R  | E 33UF, 6.3V            |           |
| C1002        | EEEHB1A101P  | E 1000UF, 10V           |           |
| C1003        | ECJ0EB1C103K | C 0.01UF, 16V           |           |
| C1004        | EEEHB0J330R  | E 33UF, 6.3V            |           |
| C1005        | ECJ0EB1C103K | C 0.01UF, 16V           |           |
| C1006        | EEEHB0J330R  | E 33UF, 6.3V            |           |
| C1007        | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1008        | ECJ0EB1C103K | C 0.01UF, 16V           |           |
| C1009        | EEEHB0J330R  | E 33UF, 6.3V            |           |
| C1010        | ECJ0EB1C103K | C 0.01UF, 16V           |           |
| C1011        | ECJ0EB1C103K | C 0.01UF, 16V           |           |
| C1012        | ECJ1XB1H102K | C 1000PF, K, 50V        |           |
| C1013        | ECJ1XB1H102K | C 1000PF, K, 50V        |           |
| C1014        | EEEHB0J330R  | E 33UF, 6.3V            |           |
| C1016        | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1017        | ECJ1XC1H221J | C 220PF, 50V            |           |
| C1018        | ECJ1VC1H270J | C 27PF, J, 50V          |           |
| C1019        | ECJ1XC1H120J | C 12PF, 50V             |           |
| C1020        | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1022        | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |           |
| C1023        | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |           |
| C1024        | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1030        | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1031        | EEEHB0J470R  | E 47UF, 6.3V            |           |
| C1039        | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |           |
| C1040        | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1043        | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |           |
| C1045        | EEEHB1C100R  | E 10UF, 16V             |           |
| C1046        | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1047        | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1048        | ECJ2FF1A106Z | C 10UF, 10V             |           |
| C1049        | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1052        | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1053        | ECJ0EB1C103K | C 0.01UF, 16V           |           |
| C1054        | ECJ2FF1A106Z | C 10UF, 10V             |           |
| C1055        | EEEHB1C100R  | E 10UF, 16V             |           |
| C1056        | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1057        | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1058        | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1059        | ECJ0EB1C103K | C 0.01UF, 16V           |           |
| C1060        | EEEHB0G101R  | E 1000UF, 4V            |           |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C1061    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1062    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1063    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1064    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1065    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1067    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1068    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1070    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1071    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1072    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1073    | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |         |
| C1074    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1075    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1076    | ECJ1XB1H102K | C 1000PF, K, 50V        |         |
| C1077    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1078    | ECJ1VB1C823K | C 0.82UF, 16V           |         |
| C1080    | ECJ0EB1C822K | C 8200PF, 16V           |         |
| C1081    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1082    | ECJ1XC1H120J | C 12PF, 50V             |         |
| C1083    | ECJ1XC1H120J | C 12PF, 50V             |         |
| C1084    | EEEBHB1C470P | E 47UF, 16V             |         |
| C1085    | ECJ1XC1H120J | C 12PF, 50V             |         |
| C1086    | ECJ1VC1H270J | C 27PF, J, 50V          |         |
| C1087    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1088    | ECJ1VC1H270J | C 27PF, J, 50V          |         |
| C1089    | ECJ1VC1H270J | C 27PF, J, 50V          |         |
| C1090    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1091    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1093    | ECJ1XC1H330J | C 33PF, J, 50V          |         |
| C1094    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1095    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1096    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1097    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1099    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1101    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1102    | EEFCD0D101R  | CAPACITOR               |         |
| C1103    | EEEBHB1C470P | E 47UF, 16V             |         |
| C1105    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1106    | EEEBHB0G101R | E 100UF, 4V             |         |
| C1107    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1108    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1112    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1113    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1114    | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |         |
| C1115    | EEEBHB1C470P | E 47UF, 16V             |         |
| C1117    | EEEBHB1C470P | E 47UF, 16V             |         |
| C1198    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1199    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1200    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1201    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1202    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1203    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1204    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1205    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1206    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1207    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1208    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1209    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1210    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1211    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1212    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1213    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1214    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1215    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1216    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1217    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1218    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1219    | EEEBHB0G101R | E 100UF, 4V             |         |
| C1222    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1223    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1224    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1225    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C1226    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1227    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1228    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1229    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1230    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1231    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1233    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1235    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1236    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1237    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1238    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1239    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1240    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1241    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1242    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1243    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1244    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1245    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1246    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1247    | EEEBHB0G101R | E 100UF, 4V             |         |
| C1248    | ECJ1XC1H331J | C 330PF, J, 50V         |         |
| C1292    | ECJ1XC1H330J | C 33PF, J, 50V          |         |
| C1298    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1299    | EEEBHB0G221P | E 220UF, 4V             |         |
| C1300    | EEEBHB0G221P | E 220UF, 4V             |         |
| C1304    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1306    | ECJ1XF1A105Z | C 100UF, 10V            |         |
| C1314    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1315    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1316    | ECJ1XF1H333Z | C 0.033UF, 50V          |         |
| C1317    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1319    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1320    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1321    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1322    | ECJ1XC1H471J | C 470PF, J, 50V         |         |
| C1323    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1324    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1325    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1328    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1329    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1330    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1331    | EEEBHB0G101R | E 100UF, 4V             |         |
| C1332    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1333    | EEEBHB0J330R | E 33UF, 6.3V            |         |
| C1334    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1335    | EEEBHB0G101R | E 100UF, 4V             |         |
| C1337    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1338    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1339    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1340    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1341    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1342    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1343    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1344    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1345    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1346    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1347    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1348    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1349    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1350    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1351    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1352    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1353    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1354    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1355    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1356    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1357    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1358    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1359    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1360    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1361    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1362    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1363    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C1364    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1365    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1366    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1367    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1368    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1369    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1370    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1371    | EEEHB1E4R7R  | E 4.7UF, 25V            |         |
| C1372    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1373    | EEEHB1E4R7R  | E 4.7UF, 25V            |         |
| C1374    | EEEHB1A101P  | E 100UF, 10V            |         |
| C1375    | EEEHB0G101R  | E 100UF, 4V             |         |
| C1376    | EEEHB0G101R  | E 100UF, 4V             |         |
| C1377    | EEEHB0G101R  | E 100UF, 4V             |         |
| C1378    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1379    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1380    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1381    | ECJ0EB1C103K | C 0.01UF, 16V           |         |
| C1382    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1383    | ECJ0EB1C103K | C 0.01UF, 16V           |         |
| C1384    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1385    | ECJ0EB1C103K | C 0.01UF, 16V           |         |
| C1386    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1387    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1388    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1389    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1390    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1391    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1392    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1393    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1394    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1395    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1396    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1397    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1398    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1399    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1400    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1401    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1402    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1403    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1404    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1405    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1406    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1407    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1408    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1409    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1410    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1411    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1412    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1413    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1414    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1415    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1416    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1417    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1418    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1419    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1420    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1421    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1422    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1423    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1424    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1425    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1426    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1427    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1428    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1429    | EEEHB1E330P  | E 33UF, 25V             |         |
| C1430    | ECJ1XF1E104Z | C 0.1UF, Z, 25V         |         |
| C1431    | ECJ1XF1E104Z | C 0.1UF, Z, 25V         |         |
| C1432    | ECJ1XF1E104Z | C 0.1UF, Z, 25V         |         |
| C1433    | EEEHB1E330P  | E 33UF, 25V             |         |
| C1434    | EEEHB1E330P  | E 33UF, 25V             |         |
| C1435    | EEEHB1E330P  | E 33UF, 25V             |         |
| C1436    | ECJ1XF1E104Z | C 0.1UF, Z, 25V         |         |

| Ref. No. | Part No.     | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C1437    | ECJ1XF1E104Z | C 0.1UF, Z, 25V         |         |
| C1438    | ECJ1XF1E104Z | C 0.1UF, Z, 25V         |         |
| C1439    | EEEHB1E330P  | E 33UF, 25V             |         |
| C1440    | EEEHB1E330P  | E 33UF, 25V             |         |
| C1441    | EEEHB1E330P  | E 33UF, 25V             |         |
| C1442    | ECJ1XF1E104Z | C 0.1UF, Z, 25V         |         |
| C1443    | ECJ1XF1E104Z | C 0.1UF, Z, 25V         |         |
| C1444    | ECJ1XF1E104Z | C 0.1UF, Z, 25V         |         |
| C1466    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1468    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1471    | EEEHB0G101R  | E 100UF, 4V             |         |
| C1472    | EEEHB0G101R  | E 100UF, 4V             |         |
| C1501    | ECJ1XF1A105Z | C 100UF, 10V            |         |
| C1503    | ECJ1XF1A105Z | C 100UF, 10V            |         |
| C1504    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1505    | ECJ1XF1E104Z | C 0.1UF, Z, 25V         |         |
| C1506    | ECJ1XF1E104Z | C 0.1UF, Z, 25V         |         |
| C1507    | EEEHB1E330P  | E 33UF, 25V             |         |
| C1508    | EEEHB1E330P  | E 33UF, 25V             |         |
| C1509    | ECJ1XC1H120J | C 12PF, 50V             |         |
| C1510    | ECJ1XC1H120J | C 12PF, 50V             |         |
| C1544    | ECJ1XF1C474Z | C 0.47UF, Z, 16V        |         |
| C1546    | EEFCD0J470R  | CAPACITOR               |         |
| C1547    | ECJ1XC1H101J | C 100PF, J, 50V         |         |
| C1551    | EEEHB0G101R  | E 100UF, 4V             |         |
| C1552    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1553    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1554    | EEEHB0G101R  | E 100UF, 4V             |         |
| C1555    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1556    | EEEHB1A330R  | E 33UF, 10V             |         |
| C1557    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1559    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1563    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1565    | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |         |
| C1566    | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |         |
| C1568    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1569    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1570    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1571    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1572    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1573    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1574    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1575    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1576    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1577    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1578    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1579    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1581    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1583    | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |         |
| C1584    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1586    | EEEHB0J330R  | E 33UF, 6.3V            |         |
| C1589    | ECJ1XB1H102K | C 1000PF, K, 50V        |         |
| C1590    | ECJ1XB1H102K | C 1000PF, K, 50V        |         |
| C1591    | ECJ1XB1H102K | C 1000PF, K, 50V        |         |
| C1594    | ECJ1XB1H102K | C 1000PF, K, 50V        |         |
| C1595    | ECJ1XB1H102K | C 1000PF, K, 50V        |         |
| C1596    | ECJ1XB1H102K | C 1000PF, K, 50V        |         |
| C1597    | ECJ1XB1H102K | C 1000PF, K, 50V        |         |
| C1598    | ECJ1XB1H102K | C 1000PF, K, 50V        |         |
| C1599    | ECJ1XB1H102K | C 1000PF, K, 50V        |         |
| C1600    | EEEHB0J330R  | E 33UF, 6.3V            |         |
| C1601    | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |         |
| C1602    | ECJ1XC1H221J | C 220PF, 50V            |         |
| C1603    | ECJ1XB1H102K | C 1000PF, K, 50V        |         |
| C1604    | ECJ0EF1C104Z | C 0.1UF, 16V            |         |
| C1605    | EEEHB1C470P  | E 47UF, 16V             |         |
| C1606    | EEEHB1C470P  | E 47UF, 16V             |         |
| C1607    | ECJ1XF1C474Z | C 0.47UF, Z, 16V        |         |
| C1608    | ECJ1XF1C474Z | C 0.47UF, Z, 16V        |         |
| C1609    | ECJ1XF1A105Z | C 100UF, 10V            |         |
| C1610    | ECJ1XF1C105Z | C 0.01UF, Z, 16V        |         |
| C1611    | ECJ1XF1C105Z | C 0.01UF, Z, 16V        |         |
| C1612    | ECJ1XF1A105Z | C 100UF, 10V            |         |

| Ref. No. | Part No.     | Part Name & Description | Remarks   |
|----------|--------------|-------------------------|-----------|
| C1613    | ECJ1XF1C105Z | C 0.01UF, Z, 16V        |           |
| C1614    | ECJ1XF1C105Z | C 0.01UF, Z, 16V        |           |
| C1615    | ECJ1XF1C105Z | C 0.01UF, Z, 16V        |           |
| C1616    | ECJ1XF1C105Z | C 0.01UF, Z, 16V        |           |
| C1617    | ECJ1XF1C105Z | C 0.01UF, Z, 16V        |           |
| C1618    | ECJ2XB1H472K | C 2700PF, K, 50V        |           |
| C1619    | ECJ2XB1C224K | C 0.22UF, K, 16V        |           |
| C1620    | ECJ2XB1C224K | C 0.22UF, K, 16V        |           |
| C1621    | ECJ1XC1H100C | C 10PF, 50V             |           |
| C1622    | ECJ1XC1H100C | C 10PF, 50V             |           |
| C1623    | ECJ2VB1H821K | C 820PF, 50V            |           |
| C1624    | ECJ2XB1H152K | C 1500PF, K, 50V        |           |
| C1625    | ECJ2XB1H332K | C 3300PF, K, 50V        |           |
| C1626    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1627    | ECJ1XF1C105Z | C 0.01UF, Z, 16V        |           |
| C1631    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1632    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1633    | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |           |
| C1635    | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |           |
| C1636    | ECJ1XB1H102K | C 1000PF, K, 50V        |           |
| C1637    | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |           |
| C1638    | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |           |
| C1639    | ECJ1XB1H102K | C 1000PF, K, 50V        |           |
| C1640    | ECJ1XB1H102K | C 1000PF, K, 50V        |           |
| C1641    | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |           |
| C1642    | ECJ1XB1H102K | C 1000PF, K, 50V        |           |
| C1643    | ECJ1XB1H102K | C 1000PF, K, 50V        |           |
| C1644    | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |           |
| C1645    | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |           |
| C1646    | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |           |
| C1647    | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |           |
| C1649    | ECJ1XB1H102K | C 1000PF, K, 50V        |           |
| C1652    | ECJ1XF1C105Z | C 0.01UF, Z, 16V        |           |
| C1653    | ECJ1XF1C105Z | C 0.01UF, Z, 16V        |           |
| C1654    | ECJ1XF1A105Z | C 100UF, 10V            |           |
| C1655    | ECJ1XF1A105Z | C 100UF, 10V            |           |
| C1658    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1659    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1660    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1661    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1662    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1663    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1664    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1665    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1666    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1667    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1668    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1669    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1670    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1671    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1672    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1673    | ECJ1XF1C105Z | C 0.01UF, Z, 16V        |           |
| C1674    | EEEHB1C100R  | E 10UF, 16V             |           |
| C1675    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C1676    | ECJ2XF1C225Z | C 2.2UF, Z, 16V         |           |
| C1677    | ECJ1XB1H102K | C 1000PF, K, 50V        |           |
| C1678    | EEEHB0J470R  | E 47UF, 6.3V            |           |
| C2002    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C2004    | EEEHB0J470R  | E 47UF, 6.3V            |           |
| C2005    | ECJ0EF1C104Z | C 0.1UF, 16V            |           |
| C3402    | EEEHB0J330R  | E 33UF, 6.3V            | PT-AE700E |
| C3405    | ECJ0EB1C103K | C 0.01UF, 16V           | PT-AE700E |
| C3406    | ECJ0EB1C103K | C 0.01UF, 16V           | PT-AE700E |
| C3407    | EEEHB0J330R  | E 33UF, 6.3V            | PT-AE700E |
| C3408    | ECJ0EB1C103K | C 0.01UF, 16V           | PT-AE700E |
| C3409    | ECJ0EF1C104Z | C 0.1UF, 16V            | PT-AE700E |
| C3410    | EEEHB0J330R  | E 33UF, 6.3V            | PT-AE700E |
| C3411    | EEEHB0J330R  | E 33UF, 6.3V            | PT-AE700E |
| C3412    | ECJ0EF1C104Z | C 0.1UF, 16V            | PT-AE700E |
| C9101    | ECQU2A334MLA | P 0.33UF, 250V          | ▲         |
| C9102    | F1BAH1020016 | CAPACITOR               | ▲         |
| C9103    | F1BAH1020016 | CAPACITOR               | ▲         |
| C9603    | F0CZZ4740002 | CAPACITOR               |           |

| Ref. No. | Part No.     | Part Name & Description   | Remarks      |
|----------|--------------|---------------------------|--------------|
| C9610    | F0C2E1050002 | CAPACITOR                 |              |
| C9617    | F0C3C4720003 | CAPACITOR                 |              |
| C9618    | F0C2J1540004 | CAPACITOR                 |              |
| C9619    | F0C2J1540004 | CAPACITOR                 |              |
|          |              |                           | [OTHERS]     |
| A1       | K1MN36B00014 | 36P CONNECTOR             |              |
| A2       | K1MN36B00014 | 36P CONNECTOR             |              |
| A3       | K1MN36B00014 | 36P CONNECTOR             |              |
| A4       | K1KA05B00153 | 5P CONNECTOR              |              |
| A6       | K1KA12B00066 | 12P CONNECTOR             |              |
| A7       | K1KA02B00051 | 2P CONNECTOR              |              |
| A8       | K1MN12B00070 | 12P CONNECTOR             |              |
| A15      | TJS6A8780    | 3P CONNECTOR              | K1KA03B00006 |
| A16      | TJS6A8780    | 3P CONNECTOR              | K1KA03B00006 |
| A17      | TJS6A8780    | 3P CONNECTOR              | K1KA03B00006 |
| A18      | TJS6A8780    | 3P CONNECTOR              | K1KA03B00006 |
| A19      | K1KA04B00007 | 4P CONNECTOR              |              |
| A20      | TJS6A8780    | 3P CONNECTOR              | K1KA03B00006 |
| A21      | K1KA10B00126 | 10P CONNECTOR             |              |
| A22      | K1KA07B00041 | 7P CONNECTOR              |              |
| A23      | TJSF43709    | CONNECTOR                 | K1KA09B00048 |
| H1       | K1KA09A00156 | 9P CONNECTOR              |              |
| H2       | K1MN06B00040 | 6P CONNECTOR              |              |
| K3       | K1KA02A00104 | 2P CONNECTOR              |              |
| S01      | K1MN12B00137 | 12P CONNECTOR             |              |
| S02      | K1KA02B00051 | 2P CONNECTOR              |              |
| F9101-1  | EYF52BCY     | FUSE HOLDER               |              |
| F9101-2  | EYF52BCY     | FUSE HOLDER               |              |
| F9101    | K5D502BN0003 | FUSE                      | ▲            |
| FL1001   | J0HABC000011 | FILTER                    |              |
| FL1002   | J0HABC000011 | FILTER                    |              |
| FL1003   | J0HABC000011 | FILTER                    |              |
| FL1004   | EXCCET103U   | EMI FILTER                |              |
| FL1005   | EXCCET103U   | EMI FILTER                |              |
| FL1006   | EXCCET103U   | EMI FILTER                |              |
| FL1010   | J0HABB000015 | FILTER                    |              |
| HE2201   | B4ABA0000009 | HALL DEVICE               |              |
| JK1001   | K1CB205B0004 | S-VIDEO/VIDEO IN TERMINAL |              |
| JK1002   | K2HA304B0006 | Y/Pb/Pr IN TERMINAL       |              |
| JK1003   | K2HC103B0174 | TRIGGER OUT TERMINAL      |              |
| JK1004   | K1FA119E0001 | HDMI IN TERMINAL          |              |
| JK1005   | K1FB115B0079 | RGB1 IN TERMINAL          |              |
| JK3401   | K1FB121B0007 | SCART TERMINAL            | PT-AE700E    |
| JK9101   | K2AH3B000019 | AC INLET                  | ▲            |
| JS1004   | ERJ6GEY0R00  | M 0 OHM, J, 1/10W         |              |
| JS1005   | ERJ6GEY0R00  | M 0 OHM, J, 1/10W         |              |
| JS1006   | ERJ6GEY0R00  | M 0 OHM, J, 1/10W         |              |
| JS1007   | ERJ6GEY0R00  | M 0 OHM, J, 1/10W         |              |
| JS1008   | ERJ6GEY0R00  | M 0 OHM, J, 1/10W         |              |
| JS1009   | ERJ6GEY0R00  | M 0 OHM, J, 1/10W         |              |
| JS1010   | ERJ6GEY0R00  | M 0 OHM, J, 1/10W         |              |
| JS1011   | ERJ6GEY0R00  | M 0 OHM, J, 1/10W         |              |
| JS1012   | ERJ6GEY0R00  | M 0 OHM, J, 1/10W         |              |
| JS1013   | ERJ6GEY0R00  | M 0 OHM, J, 1/10W         |              |
| LF9101   | G0B592H00001 | FILTER                    | ▲            |
| LF9102   | G0B592H00001 | FILTER                    | ▲            |
| RM2001   | B3RAD0000038 | REMOTE CONTROL RECEIVER   |              |
| S9602    | A9BZ00000010 | SPARK GAP                 |              |
| SW2001   | EVQPLHA15    | SWITCH                    |              |
| SW2002   | EVQPLHA15    | SWITCH                    |              |
| SW2003   | EVQPLHA15    | SWITCH                    |              |
| SW2004   | EVQPLHA15    | SWITCH                    |              |
| SW2005   | EVQPLHA15    | SWITCH                    |              |
| SW2006   | EVQPLHA15    | SWITCH                    |              |
| SW2007   | EVQPLHA15    | SWITCH                    |              |
| SW2008   | EVQPLHA15    | SWITCH                    |              |
| SW9101   | K0AAKA000006 | AC SWITCH                 | ▲            |
| SW9601   | T115AR3U3    | SWITCH                    | ▲            |
| T9604    | G4F2A0000001 | TRANS                     | ▲            |

| Ref. No. | Part No.     | Part Name & Description | Remarks   |
|----------|--------------|-------------------------|-----------|
| X1001    | H1A7605B0003 | CRYSTAL                 |           |
| X1002    | H0J270500077 | CRYSTAL                 |           |
| X1003    | H0J200500048 | CRYSTAL                 |           |
| X1004    | H0J983400016 | CRYSTAL                 |           |
| ZA001    | TJC6137      | EARTH LUG               |           |
|          | ETXMM519MBG  | CIRCUIT BOARD P         |           |
|          | TXANP02VJY7  | BALLAST UNIT            |           |
| ZA3402   | TJC6137      | EARTH LUG               | PT-AE700E |
| RTL      | TNPA3411     | CIRCUIT BOARD S         |           |
| RTL      | TNPA3417     | CIRCUIT BOARD J         | PT-AE700E |
| RTL      | TXANP03PXNZ  | CIRCUIT BOARD K         | PT-AE700U |
| RTL      | TXANP03PXQZ  | CIRCUIT BOARD K         | PT-AE700E |
| RTL      | TXANP99PXNZ  | CIRCUIT BOARD A         |           |
| RTL      | TNPA3412     | CIRCUIT BOARD H         |           |